

691-3

PRACTICAL BUILDING INFORMATION

WITH A BRIEF SUMMARY
OF THE PRINCIPAL

Truscon BUILDING PRODUCTS



EIGHTH EDITION

Trussed Concrete Steel Co.
of Canada, Limited

WALKERVILLE, ONTARIO

Montreal Toronto Winnipeg Calgary Vancouver

Warehouses at Toronto and Calgary



JUN 7 - 1950

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ESSENTIALS OF BUILDING

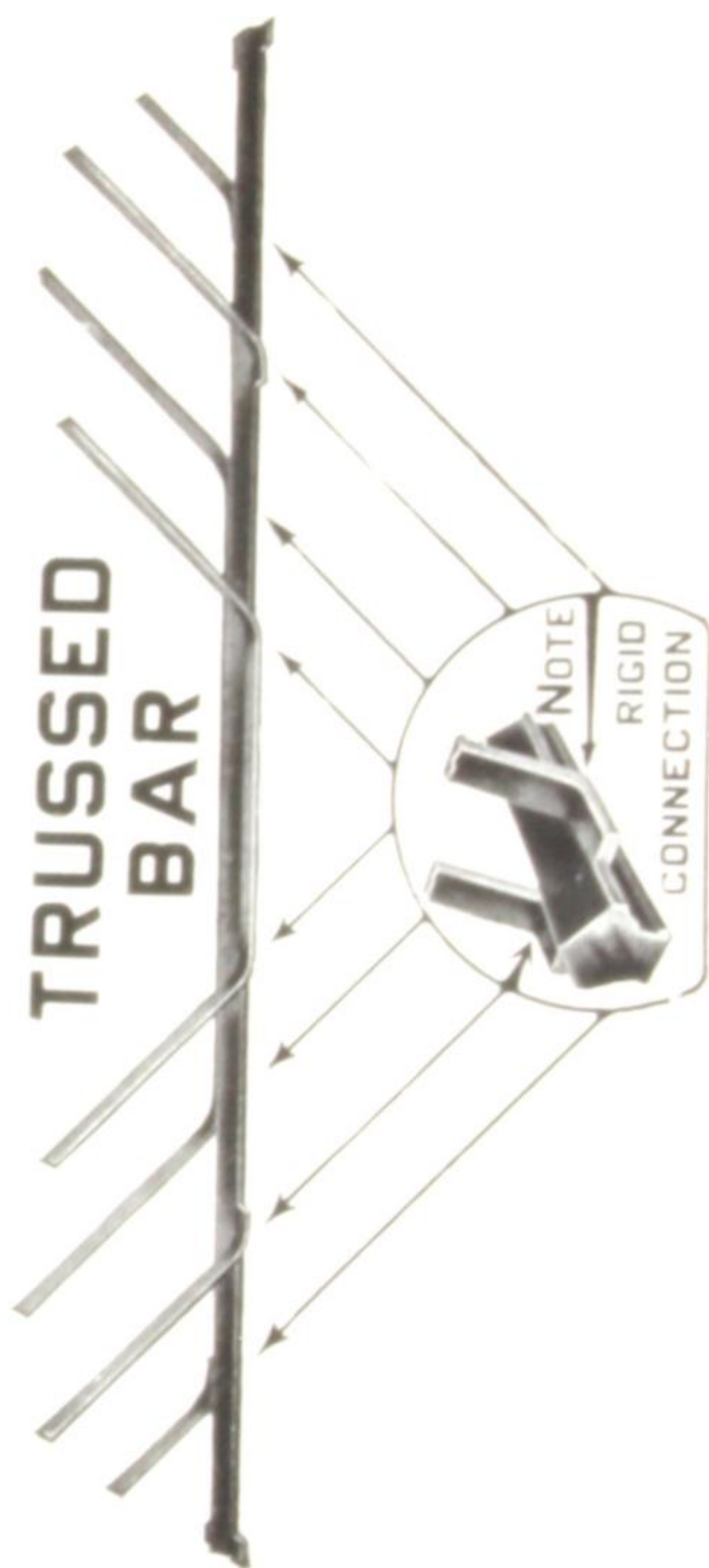
First and foremost, be sure of the products that are used in your building; for on them its success depends. There is no substitute for quality and efficiency; high-class, conscientious workmanship is only wasted on poor materials.

Efficiency, quality and economy form the foundation of **Truscon** Building Products. Each product is designed for its particular uses; many of them are combined in even a small structure to insure greatest economy and best results. **Truscon** Building Products are a **complete** line—there are no makeshifts or misfits.

No amount of theory can take the place of actual experience. **Truscon** Building Products have been developed to their present perfection by use in over 20,000 structures in all parts of the world. The technical experience gained in this work places us in a position where we can be of invaluable service to owners, architects and contractors.

Our large corps of engineers is ready at all times to furnish suggestions, estimates, details, etc. **Truscon** Building Service insures correct and accurate results in the preliminary work and in the actual construction. Our representatives, located in principal cities, are men of experience and co-operate fully.

This booklet gives merely an outline of the principal **Truscon** Building Products and shows nothing of their wide application and extensive use. A complete catalogue devoted to any individual product and containing full information will be sent upon request. Better still, write us about your building so we can show you what **Truscon** Building Products can do for you.



FOR CONCRETE BEAMS, GIRDERS, FLOORS AND ARCHES

Rigid connection of web members is the one essential requirement for strength, safety, economy, accuracy, fireproofness and shockproofness.

TRUSSED BARS

The **Trussed Bar** for reinforcing concrete consists of a main horizontal bar and **rigidly connected diagonal shear** members. The cross section of the bar has two horizontal flanges projecting at opposite sides. These flanges are sheared up at intervals to form the rigidly connected diagonals, making a unit of main bar and shear members.

Trussed Bars save steel, because the shear members are formed from that portion of the flanges of the main bar where the whole section is no longer required to resist bending moment. This saves the entire expense of additional steel required for loose stirrups.

Trussed Bars save labor of installing many loose separate bars, because shear members and main bar are handled as one piece.

Trussed Bars safeguard the structure because, if fire should burn the concrete away from the main or bottom part of the bar, the diagonals, being rigidly attached, would still carry the load by transferring the stresses to this main member of the bar, and the structure would not fail. Tests have proven that with only the diagonals embedded and the main portion of the bar left exposed, about 75% of the stress in the main bar can be developed by this transference of stresses.

Trussed Bars make beams 12% to 30% stronger than where loose stirrups are used, as proven by University tests.

The web members of **Trussed Bars** are inclined at 45 degrees at right angles to the plane of weakness in the beam and present a flat surface to the compression stresses, which grip them like a vise.

Catalogues showing tests and more complete information sent on request.

SHEARING OF TRUSSED BARS



STANDARD SHEAR—Middle portion left unsheared



ONE WAY SHEAR—All diagonals sheared inclining in one direction.



CENTER SHEAR—Entire bar sheared to center.



SPECIAL SHEARING—As directed by purchaser.

Sketches marked (*) show shearing with diagonals alternating, as provided on 12", 18", 24", 30" and 36" diagonals.

Sketches marked (†) show shearing with diagonals opposite, as provided on 6" diagonals only.

LENGTH OF DIAGONALS

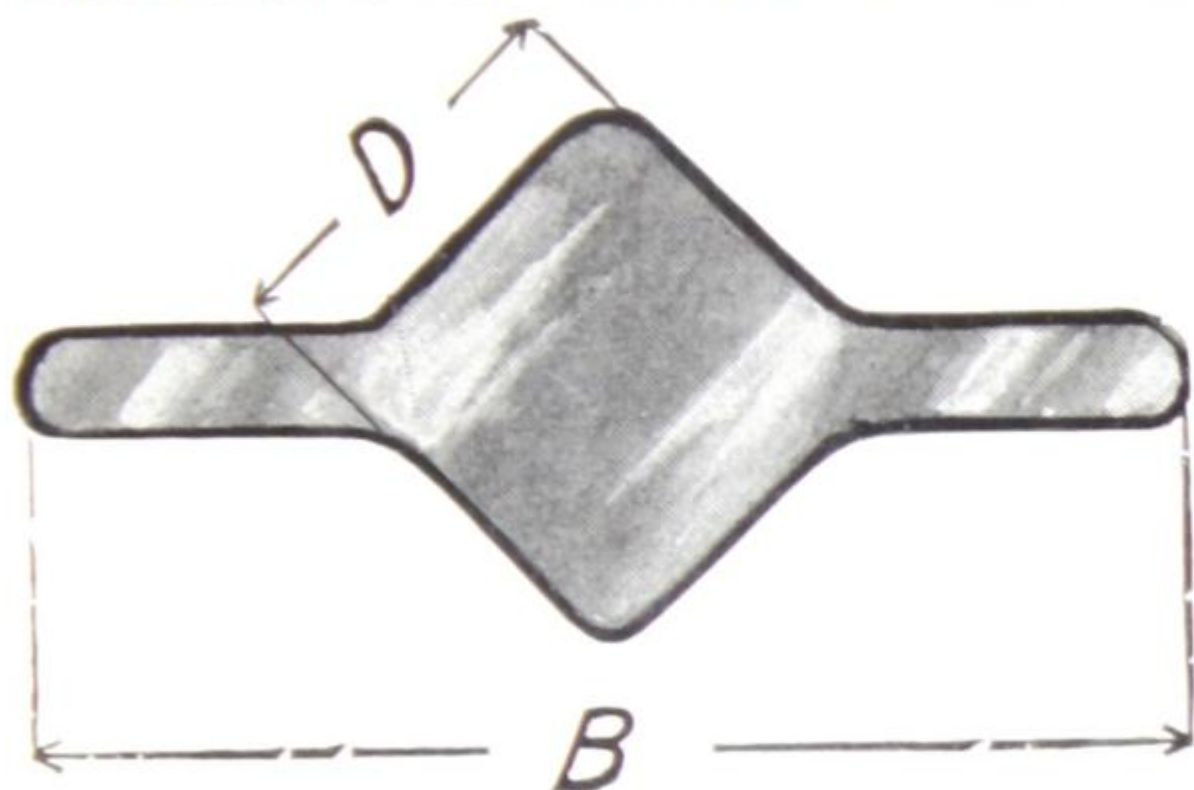
Trussed Bars

Size	Standard Lengths	Special Lengths
$\frac{1}{2}" \times 1\frac{1}{2}"$	6", 12"	
$\frac{3}{4}" \times 2\frac{3}{16}"$	12", 24"	18"
$1\frac{1}{2}" \times 2\frac{1}{4}"$	24"	12", 18", 30", 36"
$1\frac{3}{4}" \times 2\frac{3}{4}"$	24"	18", 30", 36"
$2" \times 3\frac{1}{2}"$	24"	18", 30", 36"

Our presses are set for standard length diagonals. Special lengths require change of dies, necessitating several hours' work.

Trussed Bars are manufactured from the highest grade of open-hearth steel and are shipped cut to exact length ordered. Bars up to 60 ft. in length are carried in stock at Walkerville, Ont. Any desired type of shearing can be furnished.

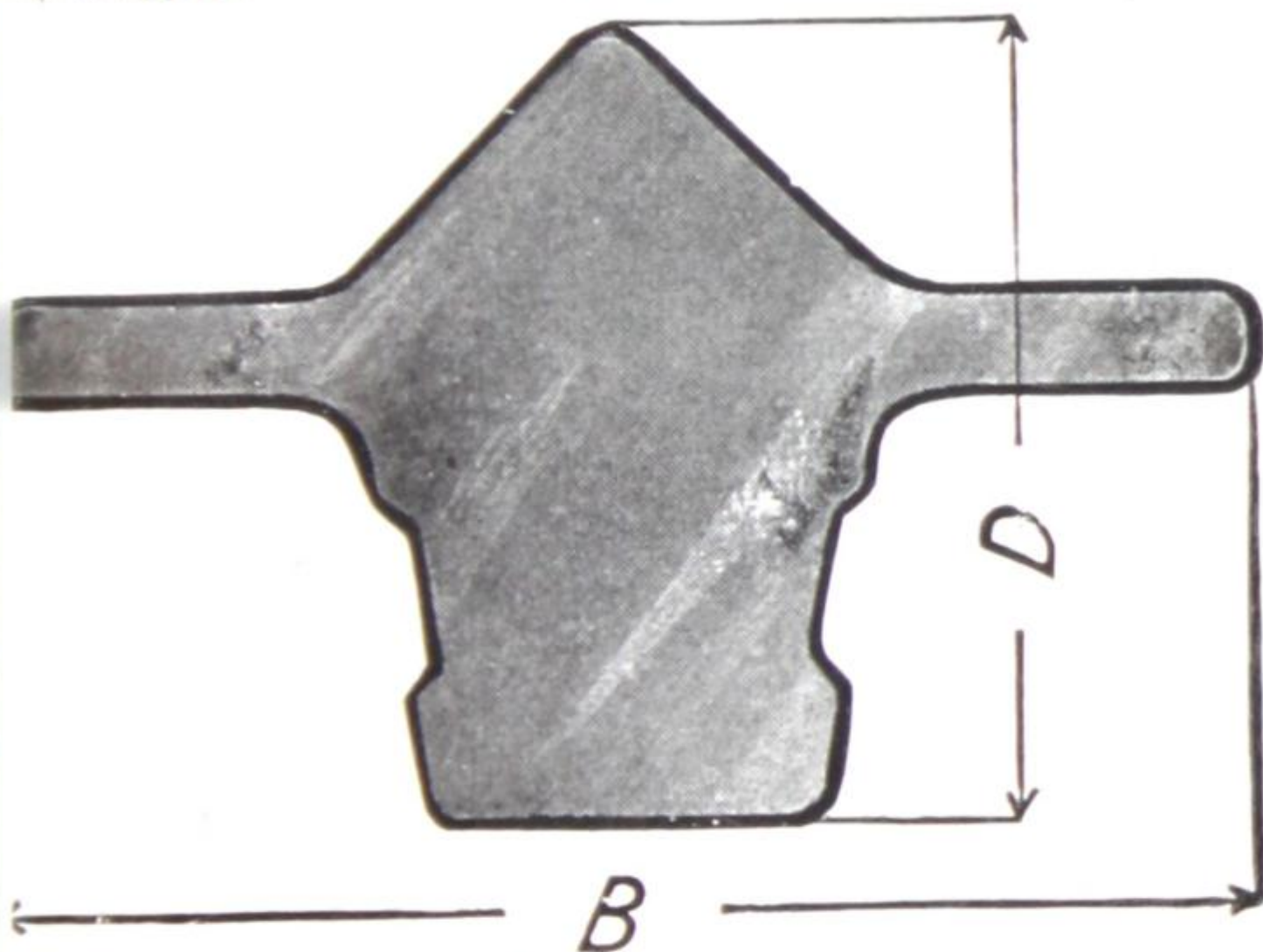
SECTIONS OF TRUSSED BARS



D x B
 $\frac{1}{2} \times 1\frac{1}{2}$ in.
 $\frac{3}{4} \times 2\frac{3}{16}$ in.

Weight per
Lineal Foot
 1.4 lbs.
 2.7 lbs.

Sec. Area
 0.41 sq. in.
 0.79 sq. in.



D x B
 $1\frac{1}{2} \times 2\frac{1}{4}$ in.
 $1\frac{3}{4} \times 2\frac{3}{4}$ in.
 2 x $3\frac{1}{2}$ in.

Weight per
Lineal Foot
 4.8 lbs.
 6.8 lbs.
 10.2 lbs.

Sec. Area
 1.41 sq. in.
 2.00 sq. in.
 3.00 sq. in.



RIB BARS

The Rib Bar for reinforcing concrete is a special rolled section of highest grade steel with a series of cross ribs so designed as to secure maximum grip on the concrete.

The Rib Bar is used principally as an auxiliary reinforcement with Trussed Bars, such as the bent bars in beams, also with Rib Metal and Hy-Rib. It is ideal wherever direct tension or compression stresses are to be resisted, for instance—the vertical bars in columns and the cross bars in slabs, also in domes, tanks, etc. It has a wide application for bridge abutments and massed concrete, where temperature, expansion and shrinkage stresses are to be resisted.

Table of Properties of Rib Bars

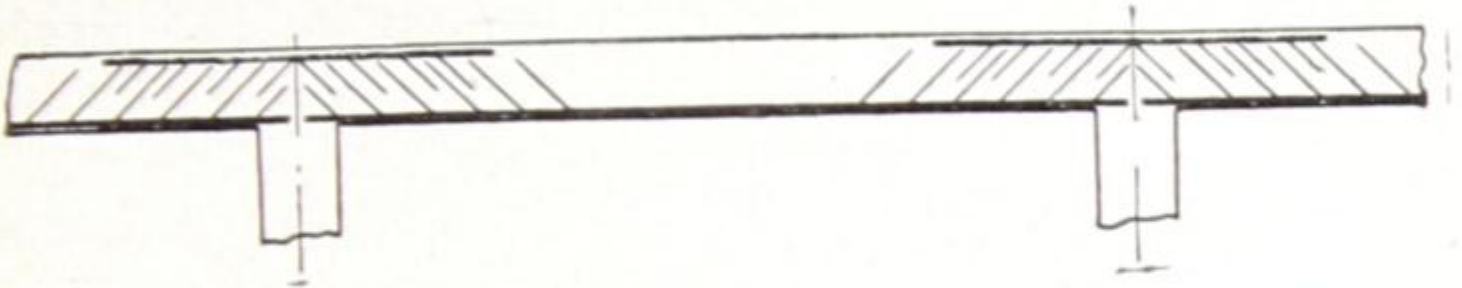
NOTE—Sectional areas of bars are given in square inches of same designation.

Size	Area	Weight per Linear Foot
3/8"	1.406 sq. in.	.48 lbs.
1/2"	2.500 "	.86 "
5/8"	3.906 "	1.35 "
1"	5.625 "	1.95 "
1 1/8"	7.656 "	2.65 "
1 1/2"	10.000 "	3.46 "
1 3/4"	12.656 "	4.38 "
2"	15.625 "	5.41 "

Furnished either straight or bent as desired. Prompt shipments either from stock or mill.

Trussed Concrete Steel Company of Canada, Limited

SAFE LOADS IN HUNDREDS OF POUNDS UNIFORMLY DISTRIBUTED FOR CONCRETE BEAMS



Reinforced with Two $\frac{3}{4}" \times 2\frac{3}{16}"$ Truscon Trussed Bars
Area=1.58 sq. in.

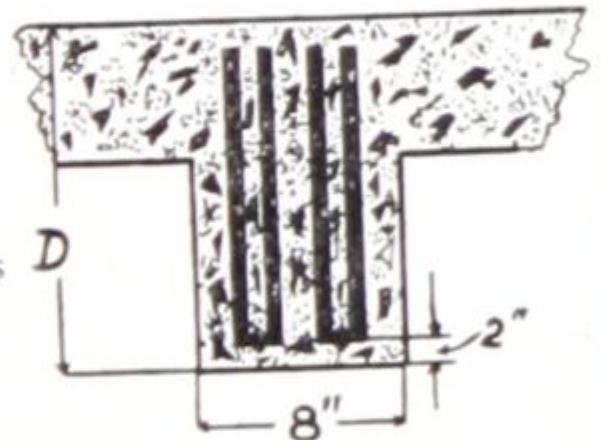
SPAN IN FEET	DEPTH IN INCHES (D)					
	8	10	12	14	16	18
7	124	166	207			
8	109	145	181	217		
9	97	129	161	193	225	258
10		116	145	174	203	232
11		106	132	158	184	211
12		97	121	145	169	193
13			111	134	156	178
14			104	124	145	166
15			97	116	135	155
16				109	127	145
17				102	119	136
18				97	113	129
19					107	122
20					101	116
21					97	110
22						105
23						101

NOTE:—Make Beam of T Section

D=Total depth of Beam in inches.

$$B. M = -\frac{Wl}{8}$$

NOTE:—For B. M. = $\frac{Wl}{K}$ above loads
must be multiplied by $\frac{K}{8}$

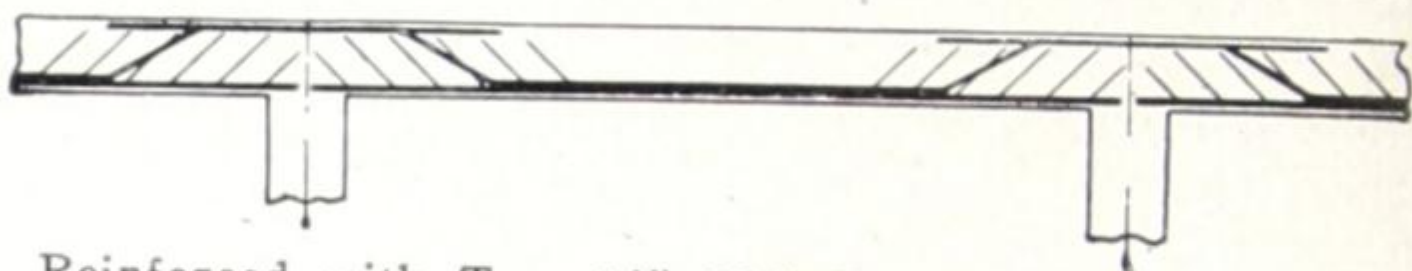


$f_s = 16,000$ lbs. per sq. in.

f_c — Max. = 750 lbs. per sq. in.

Truscon Building Products

SAFE LOADS IN HUNDREDS OF POUNDS UNIFORMLY DISTRIBUTED FOR CONCRETE BEAMS



Reinforced with Two $\frac{3}{4}" \times 2\frac{3}{16}"$ Truscon Trussed Bars and One $\frac{3}{4}"$ Rib Bar. Area 2.14 sq. in.

SPAN IN FEET	DEPTH IN INCHES (D)							
	10	12	14	16	18	20	22	24
9	174	218						
10	157	196	235					
11	143	178	214	250				
12	131	164	196	229	262	294		
13		151	181	211	242	272	302	332
14		140	168	196	224	252	280	308
15		131	157	183	209	235	262	288
16			147	172	196	221	245	270
17			139	162	185	208	231	254
18				153	174	196	218	240
19				145	165	186	207	227
20				137	157	177	196	216
21					149	168	187	206
22					142	161	178	196
23						154	171	188
24						147	163	180
25						141	157	173
26							151	166
27							145	160
28							140	154
29								149
30								144

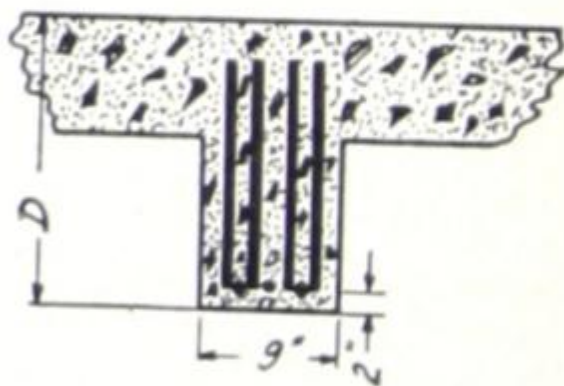
NOTE:—Make Beam of T Section.

D = Total depth of Beam in inches.

$$B. M. = \frac{Wl}{8}$$

NOTE:—For $B. M. = \frac{Wl}{K}$ above loads

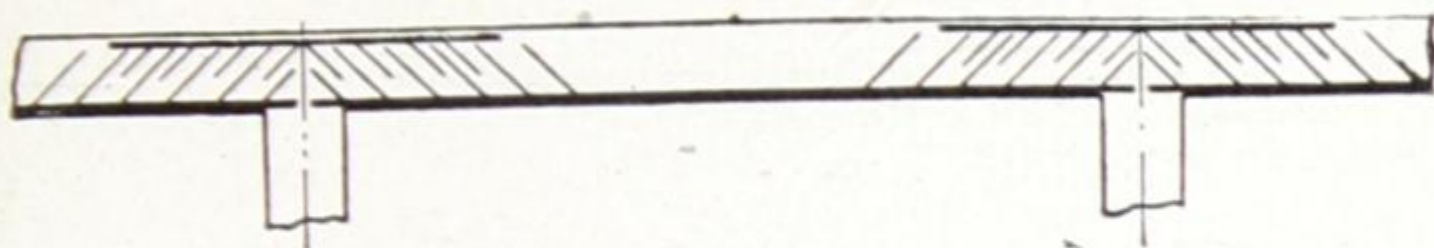
must be multiplied by $\frac{K}{8}$



$f_s = 16,000$ lbs. per sq. in.
 f_c — Max. = 750 lbs. per sq. in.

Trussed Concrete Steel Company of Canada, Limited

SAFE LOADS IN HUNDREDS OF POUNDS UNIFORMLY DISTRIBUTED FOR CONCRETE BEAMS



Reinforced with Two $1\frac{1}{2}'' \times 2\frac{1}{4}''$ Truscon Trussed Bars
Area = 2.82 sq. in.

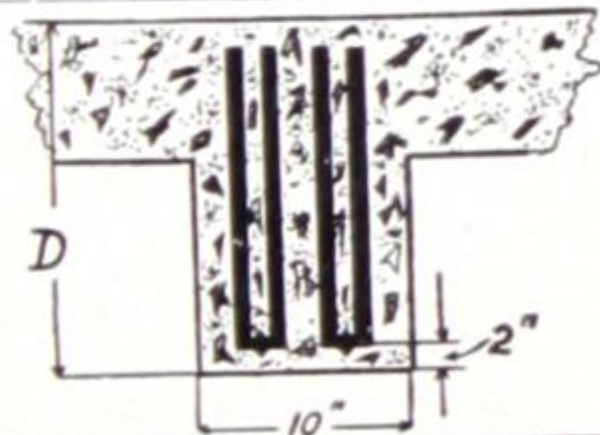
SPAN IN FEET	DEPTH IN INCHES (D)									
	12	14	16	18	20	22	24	26	28	30
12	216	259	302							
13	199	239	278	318	358					
14	185	222	259	296	332	370	406			
15	172	207	241	276	310	345	379	414	448	
16		194	226	259	291	323	356	388	420	453
17		182	213	244	274	304	335	365	396	426
18			201	230	258	287	316	345	374	402
19			190	218	245	272	300	327	354	381
20			181	207	233	258	284	310	336	362
21				197	222	246	271	295	320	345
22				188	212	235	259	282	305	329
23				180	202	225	247	270	292	315
24					194	216	237	258	280	302
25					186	207	228	248	269	290
26						199	219	239	258	278
27						191	211	230	249	268
28						185	203	221	240	258
29							196	214	232	250
30							189	207	224	241
31								200	217	233
32								194	210	226
33								188	204	219
34									198	213
35									192	207
36										201
37										196
38										191

NOTE:—Make Beam of T Section.
D = Total depth of Beam in inches.

$$B. M. = \frac{Wl}{8}$$

NOTE:—For $B. M. = \frac{Wl}{K}$ above loads

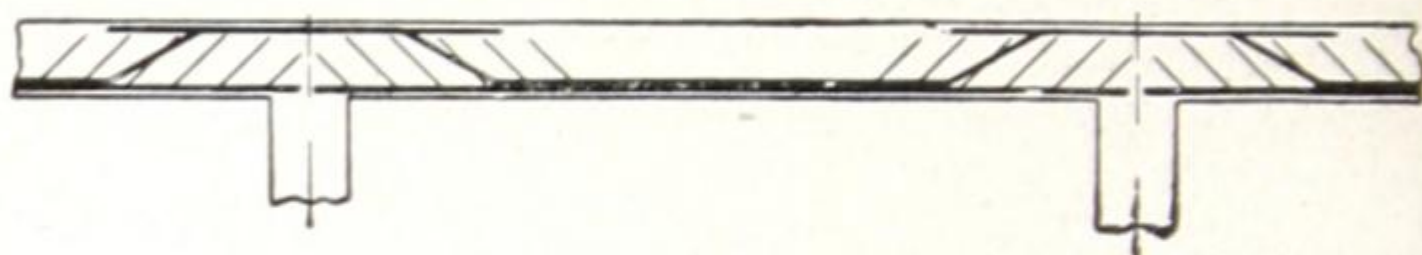
must be multiplied by $\frac{K}{8}$



$f_s = 16,000$ lbs. per sq. in.
 $f_c = \text{Max.} = 750$ lbs. per sq. in.

Truscon Building Products

SAFE LOADS IN HUNDREDS OF POUNDS UNIFORMLY DISTRIBUTED FOR CONCRETE BEAMS



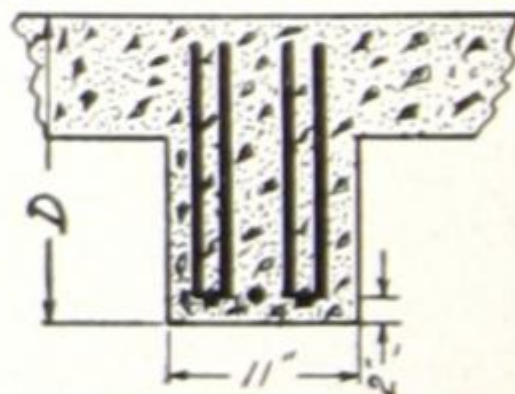
Reinforced with Two 1½"x2¼" Truscon Trussed Bars and One ¾" Rib Bar. Area 3.38 sq. in.

SPAN IN FEET	DEPTH IN INCHES (D)									
	14	16	18	20	22	24	26	28	30	32
13	286									
14	266	310	354							
15	246	289	330	372						
16	232	271	310	348	387	426				
17	219	255	292	328	365	400	438	474	510	
18		241	275	310	344	379	413	448	482	517
19		228	261	294	326	359	392	424	456	489
20		217	248	279	310	341	372	403	434	465
21			236	266	295	324	354	384	413	443
22			225	254	282	310	338	366	394	423
23			216	243	269	296	323	350	377	404
24				232	258	284	310	336	362	387
25				223	248	272	298	322	347	372
26					238	262	286	310	334	357
27					229	253	276	298	321	344
28					221	244	266	288	310	332
29						235	257	278	299	321
30						227	248	268	289	310
31							240	260	280	300
32							232	252	271	291
33							225	244	263	282
34								237	255	274
35								230	248	266
36									241	258
37									234	252
38									228	245

NOTE:—Make Beam of T Section.
D=Total depth of Beam in inches.

$$B. M. = \frac{Wl}{8}$$

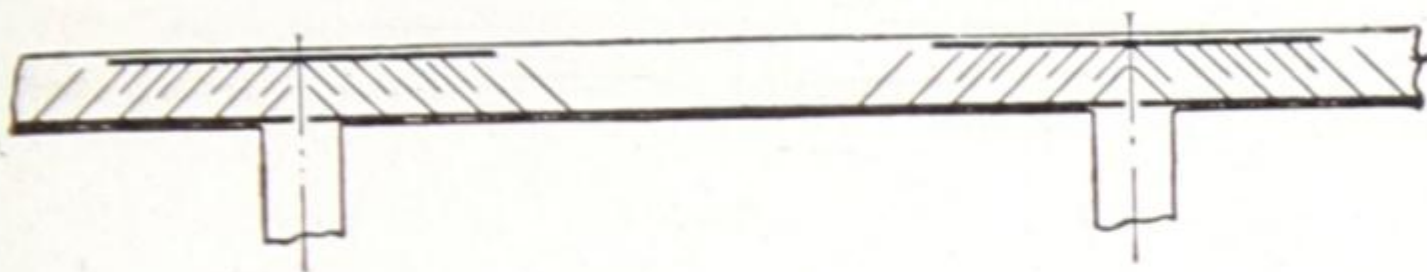
NOTE:—For B. M. = $\frac{Wl}{K}$ above loads
must be multiplied by $\frac{K}{8}$



fs = 16,000 lbs. per sq. in.
fc = Max. = 750 lbs. per sq. in.

Trussed Concrete Steel Company of Canada, Limited

SAFE LOADS IN HUNDREDS OF POUNDS UNI-
FORMLY DISTRIBUTED FOR CONCRETE BEAMS



Reinforced with Two $1\frac{3}{4}'' \times 2\frac{3}{4}''$ Truscon Trussed Bars
Area=4 sq. in.

SPAN IN FEET	DEPTH IN INCHES (D)									
	16	18	20	22	24	26	28	30	32	34
18	285	326	367	408	448					
19	270	309	348	386	425	463	502			
20	257	294	330	367	404	440	477	514		
21		280	314	349	384	419	454	489	524	
22		267	300	334	367	400	434	467	500	534
23		255	287	319	351	383	415	447	479	510
24			275	306	336	367	398	428	459	489
25			264	294	323	352	382	411	440	470
26				282	310	339	367	395	423	452
27				272	299	326	353	380	408	435
28				262	288	314	341	367	393	419
29					278	304	329	354	380	405
30					269	294	318	342	367	391
31						284	308	331	355	379
32						275	298	321	344	367
33						267	289	311	334	356
34							280	302	324	346
35							272	294	314	336
36								286	306	326
37								278	298	318

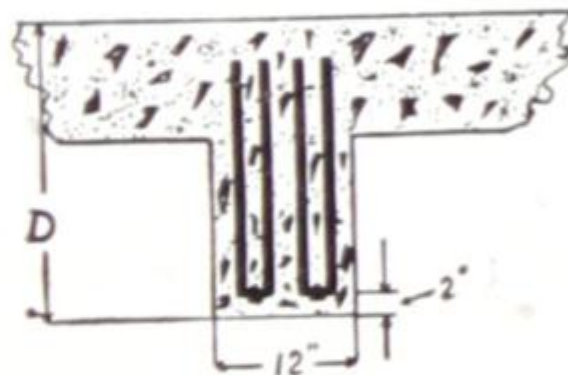
NOTE:—

Make Beam of
T Section.

D = Total depth of
Beam in inches

$$B. M. = \frac{Wl}{8}$$

NOTE:—For $B. M. = \frac{Wl}{K}$ —above loads must be multiplied by $\frac{K}{8}$



$f_s = 16,000$ lbs. per sq. in.
 f_c — Max. = 750 lbs. per sq. in.

Truscon Building Products

SAFE LOADS IN HUNDREDS OF POUNDS UNIFORMLY DISTRIBUTED FOR CONCRETE BEAMS



Reinforced with Two 1 $\frac{3}{4}$ "x2 $\frac{3}{4}$ " Truscon Trussed Bars and One 1" Rib Bar. Area=5 sq. in.

SPAN IN FEET	DEPTH IN INCHES (D)									
	18	20	22	24	26	28	30	32	34	36
18	408									
19	386	435								
20	367	414	458							
21	350	394	436	481	524					
22	334	376	416	458	500	541	582			
23	319	360	399	439	478	518	558	599	638	
24		345	382	421	458	496	535	573	610	650
25		331	367	404	440	476	515	550	588	624
26			353	389	423	458	493	530	565	600
27			340	375	407	441	476	510	544	577
28			327	361	393	426	458	492	524	557
29				349	379	411	444	475	506	538
30				337	367	397	429	460	489	520
31					355	385	415	445	474	503
32					344	373	402	430	458	487
33					334	361	390	418	445	473
34						350	378	405	432	459
35						341	368	394	420	446
36							358	383	408	433
37							348	373	397	421
38							339	363	386	410
39								354	376	400
40								345	369	390

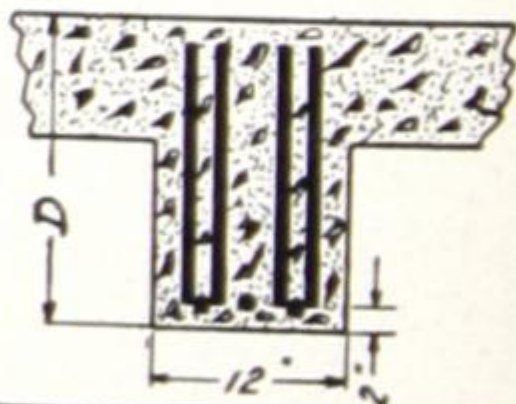
NOTE:—Make Beam of T Section.

D = Total depth of Beam in inches.

$$B. M. = \frac{Wl}{8}$$

NOTE:—For $B. M. = \frac{Wl}{K}$ above loads

must be multiplied by $\frac{K}{8}$

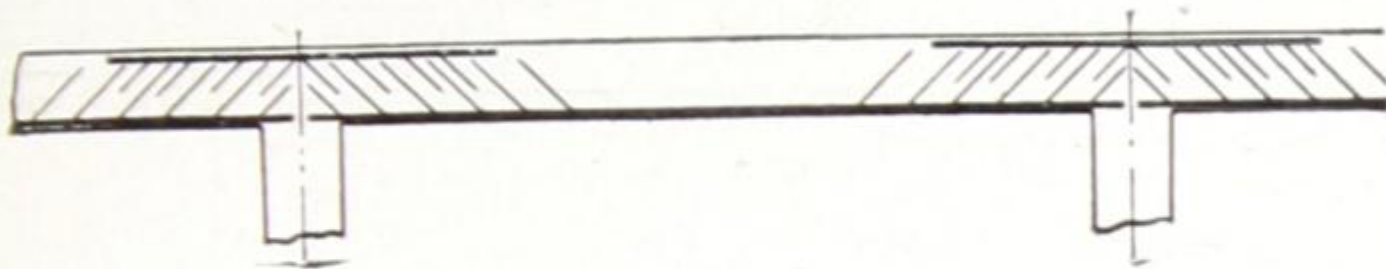


$f_s = 16,000$ lbs. per sq. in.

f_c — Max. = 750 lbs. per sq. in.

Trussed Concrete Steel Company of Canada, Limited

SAFE LOADS IN HUNDREDS OF POUNDS UNI-
FORMLY DISTRIBUTED FOR CONCRETE BEAMS



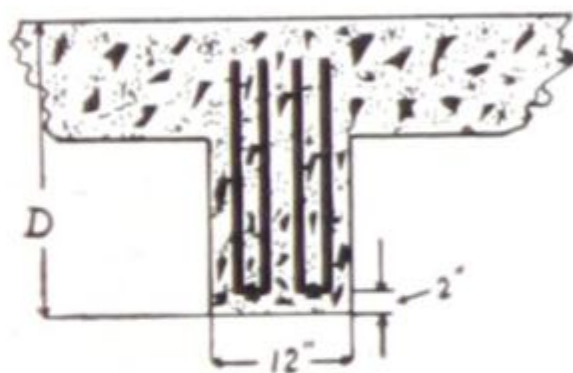
Reinforced with Two 2"x3½" Truscon Trussed Bars
Area=6 sq. in.

SPAN IN FEET	DEPTH IN INCHES (D)						
	24	26	28	30	32	34	36
25	484	528	572	616			
26	466	508	550	593	635		
27	448	489	530	571	612	652	
28	432	472	511	550	590	629	668
29	418	456	493	531	569	607	645
30	404	440	477	514	550	587	624
31		426	462	497	532	568	604
32		413	447	482	516	550	585
33		400	434	467	500	534	567
34			421	453	486	518	550
35			409	440	472	503	535
36				428	459	489	520
37				417	446	476	506
38				406	435	464	492
39					424	452	480
40					413	440	468

NOTE:—Make Beam of T Section.

D = Total depth of
Beam in inches.

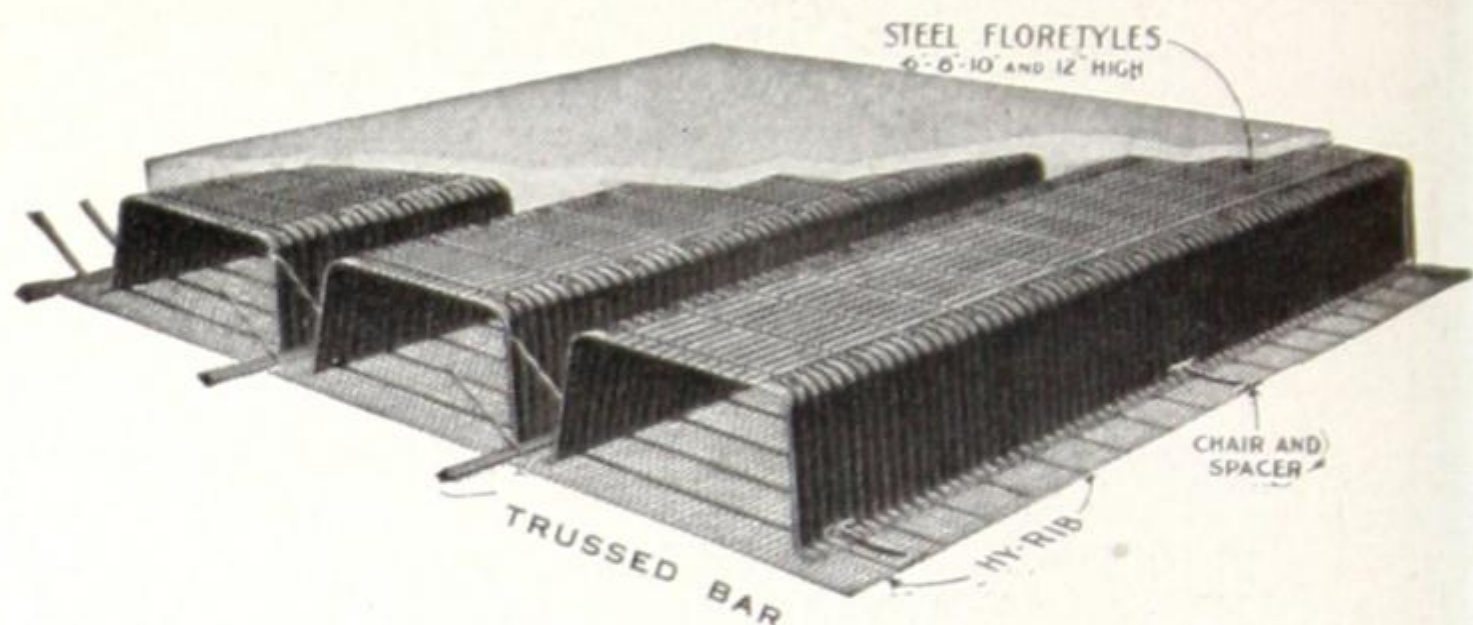
$$B. M. = \frac{Wl}{8}$$



NOTE:—For $B. M. = \frac{Wl}{K}$ above loads must be multiplied by $\frac{K}{8}$

$f_s = 16,000$ lbs. per sq. in.

f_c — Max. = 750 lbs. per sq. in.



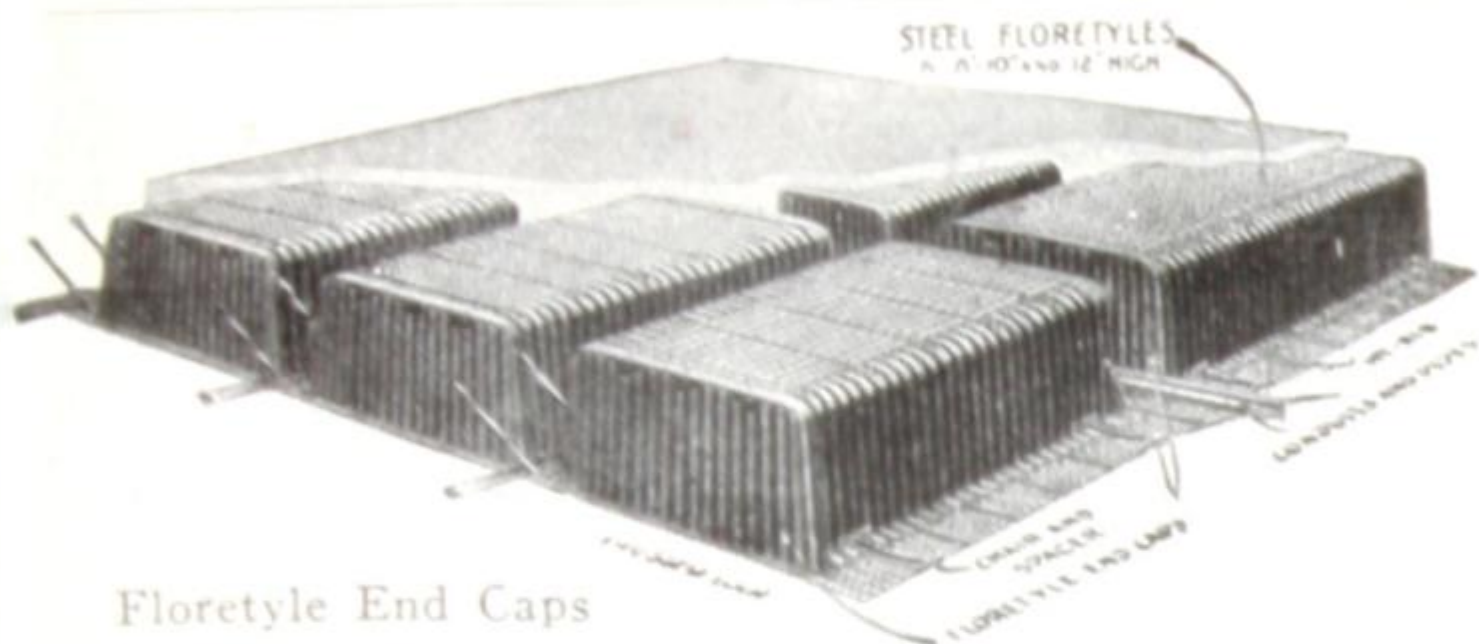
STEEL FLORETYLES

Steel Floretype Construction is the most advanced type of Reinforced Concrete Floor Construction, and is particularly adapted for Apartments, Office and Public Buildings. It consists of rows of specially formed steel Floretyles separated by Reinforced Concrete Joists and covered with a thin layer of concrete. Hy-Rib extends continuously underneath and provides a flat ceiling for plastering. The deep narrow joists carry the loads directly to the supports while the Floretyles act merely as a filler eliminating the dead weight of large masses of concrete and producing a light floor of great rigidity.

Steel Floretyles are of special design, manufactured under great, powerful presses, operating large multiple dies which assure absolute accuracy and uniformity. The deep stiffening ribs across the top, the deep corrugations on the side, the special rounded corners and the stiffening flanges along the bottom edge give exceptional stiffness and rigidity to the Floretyles and prevent their deformation.

The strength, depth and light weight of the Floretype Construction make possible flat ceilings of long span without any objectionable intermediate beams. The hollow spaces in the tile assure soundproofness. Only the simplest and most inexpensive centering is required.

Trussed Concrete Steel Company
of Canada Limited



The light weight of the construction saves not only in the floor itself but in the supporting frame work and foundations. Floretyles insure greatest speed, simplicity and economy of construction.

Absolute accuracy in width of joist and correct depth of reinforcing steel above the Hy-Rib are assured by special spacer chairs furnished with the Floretype. Rows of Floretypes are closed by special end caps which fit tightly.

Properties of Steel Floretyle

Standard Heights: 6 in., 7 in., 8 in., 9 in., 10 in. and 11¾ in. 14 in. Floretyles are not carried in stock but can be furnished on special order. Advance notice is required for this size, as it necessitates procuring special sheets from the mills.

Approximate Width at Base: 20½ in., exclusive of flanges along bottom edges.

Standard Lengths (nominal) of all sizes, 4 ft. and 3 ft. Actual lengths are 4 ft. 1 in. and 3 ft. 1 in. to provide for end lap.

End Caps furnished in corresponding depths are slightly narrower at base than Floretyles so as to fit tightly.

Spacer Chairs are located at the ends of the rows and at each lap joint of the Floretyles. Standard sizes are 4 in., 4½ in. and 5 in. wide. ¾ in. Hy-Rib is used for ceilings.

Special Floretype Pamphlet sent on request

Safe Live Loads per Square Foot for Steel Florestyle Construction

6 in. Florestyle + 2 in. Concrete										8 in. Florestyle + 2 in. Concrete										10 in. Florestyle + 2 in. Concrete										Span in Feet																																																																																																		
Span in Feet	K ¹ 1K ¹ Trussed Bars	K ¹ 1K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 1K ¹ Trussed Bars	K ¹ 1K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars		K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars	K ¹ 2K ¹ Trussed Bars + K ¹ 2K ¹ Trussed Bars

See explanation of tables on page 20.

Explanations of Floretyle Tables

(See pages 18 and 19)

Weight of floor includes weight of ceiling. If ceiling is omitted safe live loads will be increased 8 lbs. per square foot. The safe loads given in the table include weight of floor finish. To obtain net safe live load deduct the weight of floor finish.

Bending moment $= \frac{1}{2}wl^2$.

The tables on pages 20 and 21 are computed on the basis of joists spaced $24\frac{1}{2}$ " center to center for 6" and 8" Tyle and 25" center to center for 10" and 12" Tyle, 4" joists having been used in all cases.

For safe loads on simple spans use
 $W=8/12 (w + \text{wt. of Floor}) - \text{wt. of Floor}$.

For safe loads on spans continuous at one end only, use

$W=10/12 (w + \text{wt. of Floor}) - \text{wt. of Floor}$.

The loads given in the table should be used only where spans are continuous at both ends.
 $W = \text{load given in table}$.

In all cases deduct weight of floor finish to obtain net safe live load.

The steel shown is to be placed in the bottom of the joist. To provide for the negative moment in spans continuous at one or both ends place in the top of the slab over the supports an additional area of steel equal to $\frac{1}{2}$ that shown in the table. For anchorage for simple spans place in the top of the slab at the supports $\frac{1}{4}$ as much steel as that shown in the table.

Use cantilever tyle at the ends of all continuous joists which carry the loads shown to the right of the heavy dashed line in each table.

Trussed Concrete Steel Company of Canada, Limited

SAFE LIVE LOADS PER SQUARE FOOT FOR HOLLOW TILE FLOORS OF VARIOUS THICKNESSES

Reinforced with $\frac{1}{2}" \times 1\frac{1}{2}"$ Truscon Trussed Bars

Depth		4" Tile + 1" Concrete	4" Tile + 2" Concrete	6" Tile + 1" Concrete	6" Tile + 2" Concrete	8" Tile + 1" Concrete	8" Tile + 2" Concrete	10" Tile	10" Tile + 1" Concrete	10" Tile + 2" Concrete	12" Tile	12" Tile + 1" Concrete	12" Tile + 2" Concrete
Weight of Floor in Pounds per sq.ft.		38	50	47	59	56	68	54	66	78	63	75	87
Spacing		← 16" C. to C. →											
SPAN IN FEET	6	458	568	692	797	922	1027	1041	1149	1253	1268	1375	1486
	7	326	404	495	571	662	738	752	827	892	907	994	1068
	8	241	298	368	423	494	550	564	618	672	687	743	798
	9	182	225	281	322	378	419	433	474	514	529	570	613
	10	140	172	219	245	296	327	341	371	402	417	448	479
	11	109	134	172	196	235	259	273	295	317	332	357	381
	12	86	104	138	155	188	206	220	237	255	270	288	306
	13		82	110	124	148	166	180	193	205	220	235	248
	14		64	89	98	123	133	147	157	167	182	192	202
	15		49	71	78	100	108	122	128	135	150	157	165
	16			57	61	81	86	100	105	109	124	129	134
	17			45	48	66	69	83	85	88	103	106	109
	18					53	54	68	69	70	85	86	88
	19					42		55	55	55	70	70	70
	20							45	43	42	57	56	55
	21										46		

$$BM = \frac{wl^2}{12}$$



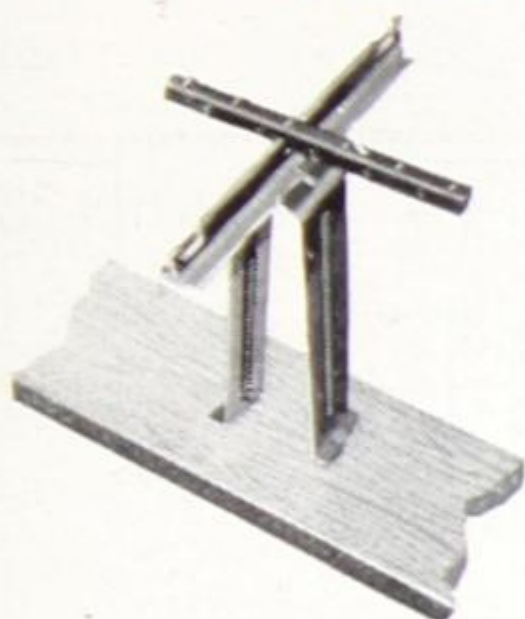
Truscon Building Products

SAFE LIVE LOADS PER SQUARE FOOT FOR HOLLOW TILE FLOORS OF VARIOUS THICKNESSES

Reinforced with $\frac{3}{4}" \times 2\frac{1}{2}"$ and $1\frac{1}{2}" \times 2\frac{1}{4}"$ Truscon
Trussed Bars

		$\frac{3}{4}" \times 2\frac{1}{2}"$ Bars										$1\frac{1}{2}" \times 2\frac{1}{4}"$
Depth		6" Tile + 2" Concrete	8" Tile + 2" Concrete	10" Tile + 2" Concrete	12" Tile + 2" Concrete	12" Tile + 2" Concrete	12" Tile + 2" Concrete	6" Tile + 2" Concrete	8" Tile + 2" Concrete	10" Tile + 2" Concrete	12" Tile + 2" Concrete	12" Tile + 3" Concrete
Weight of Floor in Pounds Per sq.ft.		59	68	78	87	98	104	61	71	82	92	108
Spacing		$\leftarrow 16" \text{ C. to C. } \rightarrow$				15"	13"	$\leftarrow 17" \text{ C. to C. } \rightarrow$				18"
SPAN IN FEET	8	853	1102	1352	1603	1712	1986	802	1039	1273	1508	2702
	9	661	859	1052	1253	1327	1546	621	806	988	1173	2112
	10	525	682	838	995	1059	1235	491	639	786	931	1692
	11	423	552	678	808	857	1001	395	516	634	754	1377
	12	346	452	558	665	706	826	322	423	521	618	1142
	13	286	376	464	555	586	688	265	349	431	513	957
	14	239	315	389	466	492	579	221	291	360	431	810
	15	200	265	328	395	416	491	184	244	303	363	692
	16	169	225	280	336	354	419	155	206	257	308	596
	17	143	192	239	288	302	359	130	175	218	262	514
	18	121	164	204	247	259	309	110	148	186	224	447
	19	103	140	176	213	223	267	92	126	158	192	390
	20	87	120	151	184	191	230	77	106	136	164	342
	21	73	102	129	158	164	199		90	115	140	300
	22	62	87	111	137	141	173		76	97	120	264
	23		74	95	118	120	149		63	82	102	232
	24		62	80	101	103	128		52	69	86	204
	25			69	86	87	110			57	72	180
	26			57	73	73	94				60	158
	27				61	61	80					139
	28											122
	29											105
$B M = \frac{wl^2}{12}$						10" Tile on Edge	8" Tile on Edge					

FLAT SLAB CHAIRS



A new, scientific and economical method of spacing and holding up the reinforcement, such as bars over column heads in a flat slab design, temperature steel in the top of slabs, etc.

Engineers take great pains and make minute calculations in the drafting room to determine the quantity and size of reinforcement, and the spacing and depth from center of steel to bottom of slab. This being the case, there should be some mechanical assurance that the steel is actually placed as designed.

ADVANTAGES: Easily and quickly erected. Rigid—can't move out of place. Bars are spaced exactly as shown in plans. Can be placed with cheap labor, as the notches in the spacing bars govern the spacing.

FLAT SLAB BAR CHAIRS

Standard heights $3\frac{1}{2}''$ to $12\frac{1}{2}''$ varying by half inches.

TEE SPACER BARS

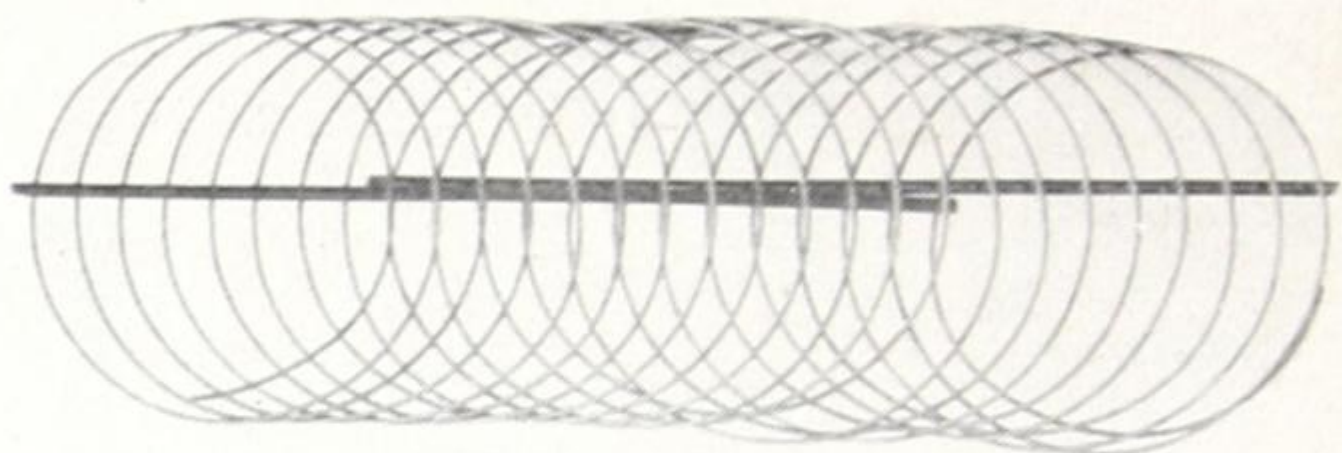
Spacer bars are $\frac{3}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$ or $1'' \times 1'' \times \frac{3}{16}''$ tees, cut to any length and notched to suit the spacing of reinforcement.

TRUSCON CORNER BEADS

A necessary protection to plastered corners to prevent abrasion, chipping and marring. Galvanized after forming. Lengths 6, 7, 8, 9 and 10 feet.

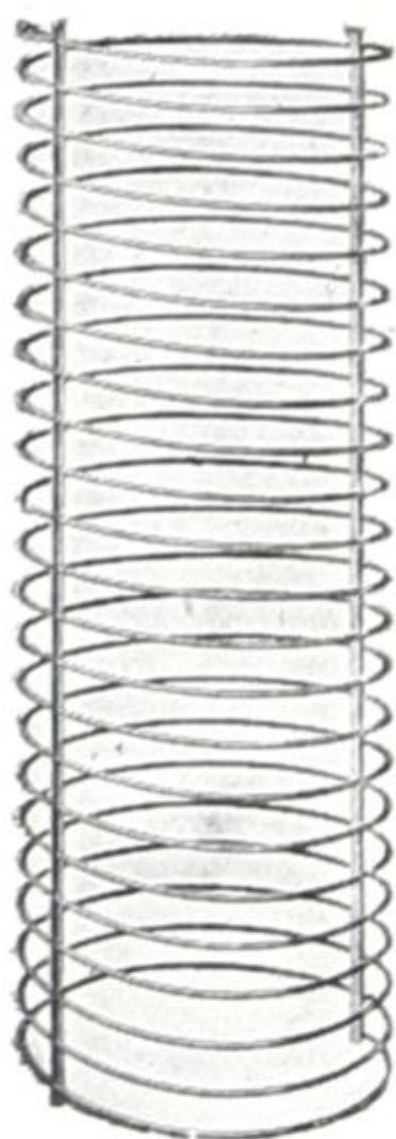


Ask for Samples



Column Hooping (collapsed) ready for shipment
Note compactness and simplicity.

COLLAPSIBLE COLUMN HOOPING



Collapsible Column Hooping, for reinforcing concrete columns, is shipped in the form of flat, circular coils of exact diameter and accurately spaced by means of special spacing bars. These coils spring automatically into a complete hooped column on cutting the small fastening wires.

Rib Bars are ordinarily used as vertical reinforcement in conjunction with Column Hooping.

Sizes of Collapsible Column Hooping

Shipped complete with two, three or four spacing bars as required.

Sizes of wire for hooping: $\frac{1}{4}$ -inch, $\frac{5}{16}$ -inch, $\frac{3}{8}$ -inch, $\frac{7}{16}$ -inch and $\frac{1}{2}$ -inch diameter.

Diameters of Coils: 9-inch to 48-inch.

Pitch: $1\frac{1}{2}$ -inch to 12 inches.

Hooping, where desired, can also be furnished in bundles, coiled to the correct diameter, and with separate spacing bars, ready for assembling in the field.

See Table of Safe Loads Carried on Hooped Columns on next page.

Trussed Concrete Steel Company of Canada, Limited

SAFE LOADS CARRIED BY HOOPED COLUMNS

SAFE LOADS in Pounds	Outside Diameter	Core Diameter	Number of Verticals	Size of Verticals Square Rib Bars	Size of Hooping Wire Diameter	Pitch of Hooping Centers
125000	16"	12"	6	$\frac{5}{8}$ "	$\frac{5}{16}$ "	3 $\frac{1}{2}$ "
150000	18"	14"	6	$\frac{5}{8}$ "	$\frac{5}{16}$ "	3 "
175000	18"	14"	6	$\frac{3}{4}$ "	$\frac{5}{16}$ "	3 "
200000	20"	16"	6	$\frac{5}{8}$ "	$\frac{5}{16}$ "	3 "
225000	20"	16"	6	$\frac{7}{8}$ "	$\frac{5}{16}$ "	3 "
	20"	16"	6	$\frac{3}{4}$ "	$\frac{5}{16}$ "	2 $\frac{1}{2}$ "
250000	20"	16"	6	1 "	$\frac{5}{16}$ "	2 $\frac{1}{2}$ "
	20"	16"	6	$\frac{1}{8}$ "	$\frac{3}{8}$ "	3 "
275000	20"	16"	6	1 "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
	22"	18"	6	$\frac{7}{8}$ "	$\frac{5}{16}$ "	3 "
300000	22"	18"	6	1 $\frac{1}{8}$ "	$\frac{5}{16}$ "	3 "
	22"	18"	6	1 "	$\frac{3}{8}$ "	3 "
325000	22"	18"	6	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	3 "
	22"	18"	6	1 "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
350000	22"	18"	8	1 "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
	24"	20"	8	1 "	$\frac{5}{16}$ "	3 "
375000	24"	20"	8	1 "	$\frac{3}{8}$ "	3 "
	24"	20"	6	1 "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
400000	24"	20"	6	1 $\frac{1}{4}$ "	$\frac{3}{8}$ "	3 "
	24"	20"	8	1 "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
	24"	20"	6	1 "	$\frac{3}{8}$ "	2 "
425000	24"	20"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
	24"	20"	8	1 "	$\frac{3}{8}$ "	2 "
450000	24"	20"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
	26"	22"	8	1 "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
475000	26"	22"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
	26"	22"	8	1 "	$\frac{3}{8}$ "	2 "
500000	26"	22"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
	28"	24"	8	1 "	$\frac{3}{8}$ "	3 "
525000	26"	22"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
	28"	24"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	3 "
550000	28"	24"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	3 "
	28"	24"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
575000	28"	24"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
	28"	24"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
600000	28"	24"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
	28"	24"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	1 $\frac{1}{2}$ "
625000	28"	24"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	1 $\frac{1}{2}$ "
650000	30"	26"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
675000	30"	26"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
	30"	26"	8	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	1 $\frac{1}{2}$ "
700000	30"	26"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	1 $\frac{1}{4}$ "
	32"	28"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "
750000	32"	28"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
800000	34"	30"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 "
850000	34"	30"	10	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	1 $\frac{1}{2}$ "

Concrete mixture for these columns should be 1:1 $\frac{1}{2}$:3.
 Above table is for hooped columns loaded symmetrically,
 reduce loads for eccentric loading, bending strains, etc.
 Least width of column should not exceed 1/15 of its unsupported length.
 Due allowance must be made for eccentric loading, bending, etc.

Truscon Building Products

SAFE LOADS IN THOUSANDS OF POUNDS FOR SQUARE STAYED COLUMNS OF REIN- FORCED CONCRETE

No. of Verticals	4	4	6	4	6	4	6	4	6	6	8	10
Size of Square Rib Bars	$\frac{1}{4}"$	$\frac{3}{4}"$	$\frac{5}{8}"$	$\frac{7}{8}"$	$\frac{1}{4}"$	1"	$\frac{1}{8}"$	$1\frac{1}{8}"$	1"	$1\frac{1}{8}"$	$1\frac{1}{8}"$	$1\frac{1}{8}"$
Size of Square Columns in Inches	12	83	88	89	93	96						
	13	95	100	101	105	108	112					
	14	109	114	115	119	122	126	130				
	15	123	128	129	133	135	140	144	147			
	16	139	144	145	149	152	156	160	163	170		
	17	155	160	161	165	168	172	176	179	186		
	18		178	179	183	186	190	194	197	204		
	19		196	197	201	204	208	212	215	222	233	
	20		216	217	221	224	228	232	235	242	253	
	21		236	237	241	244	248	252	255	262	273	291
	22			259	263	266	270	274	277	284	295	313
	23				286	289	293	297	300	307	318	336
	24				309	312	316	320	323	330	341	359
	25					336	340	344	347	354	365	383
	26					362	366	370	373	380	391	409
	27						393	397	400	407	418	436
	28						420	424	427	434	445	463
	29							452	455	462	473	491
	30							482	485	492	503	521
	31								516	523	534	552
	32	NOTE:— Minimum Vertical Steel = $\frac{1}{4}\%$. Middle Heavy Line indicates 1% Vertical Steel. Maximum Vertical Steel = $2\frac{1}{4}\%$ (Steel Carrying 25% of Load.)								554	565	583
	33									586	597	615
	34									619	630	648
	35										665	683
	36										701	719

Above loads computed by formulae.

Safe Load = $500 (A_c + 14 A_s)$

A_c = Area of Concrete. A_s = Area of Vertical Steel.

Stress on Concrete = 500 lbs. per sq. in. For other stresses on concrete. Safe Loads will be proportional.

Concrete mixture for columns, 1 1/2 3—Vertical Steel is stayed every 12 inches with No. 3 (3/8 in. diameter) wire, extending around column.

Least width of Column should not exceed 1-1.5 of its unsupported length.

Reduce Loads for eccentric loading, bending strains, etc.

Trussed Concrete Steel Company of Canada, Limited

Footings Tables

The tables show the total number of Trussed Bars required in each footing, half the number being placed in each direction as shown.

The footings are figured for a depth of footing slab as indicated in tables. The cap at the foot of the column is to have a projection C from the face of the column of 6" for columns less than 24" in least diameter and 8" where the column is 24" and over. The depth of the cap should be twice this projection.

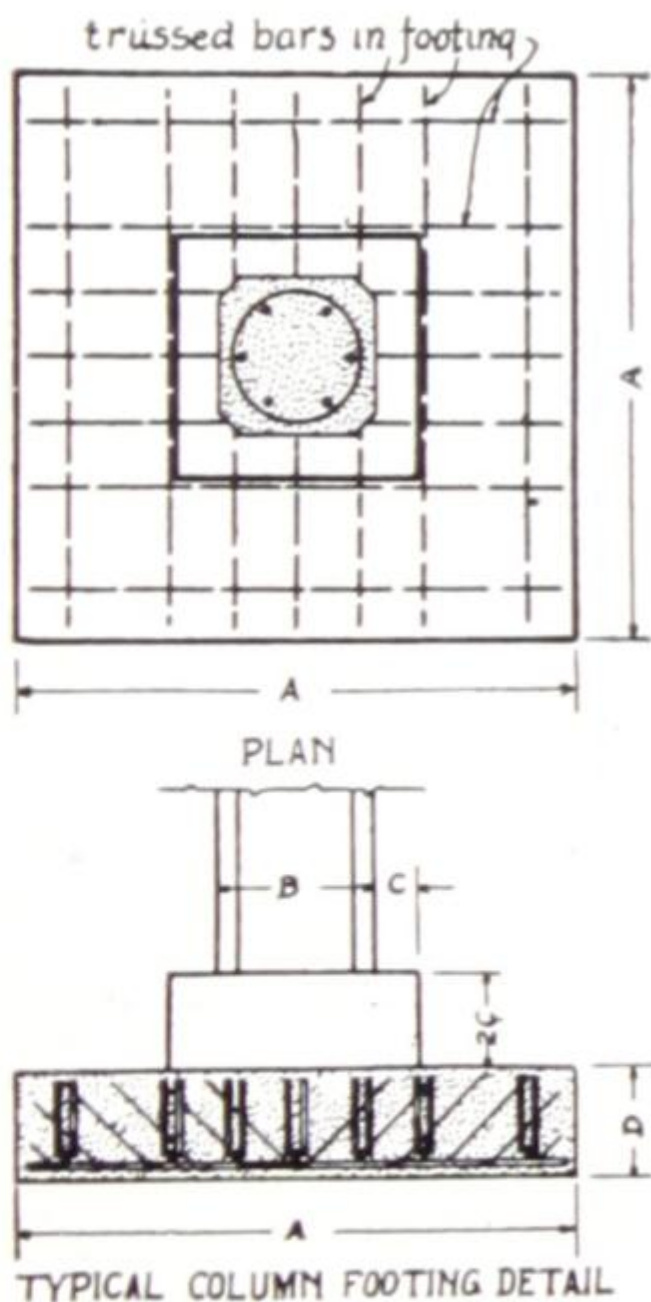
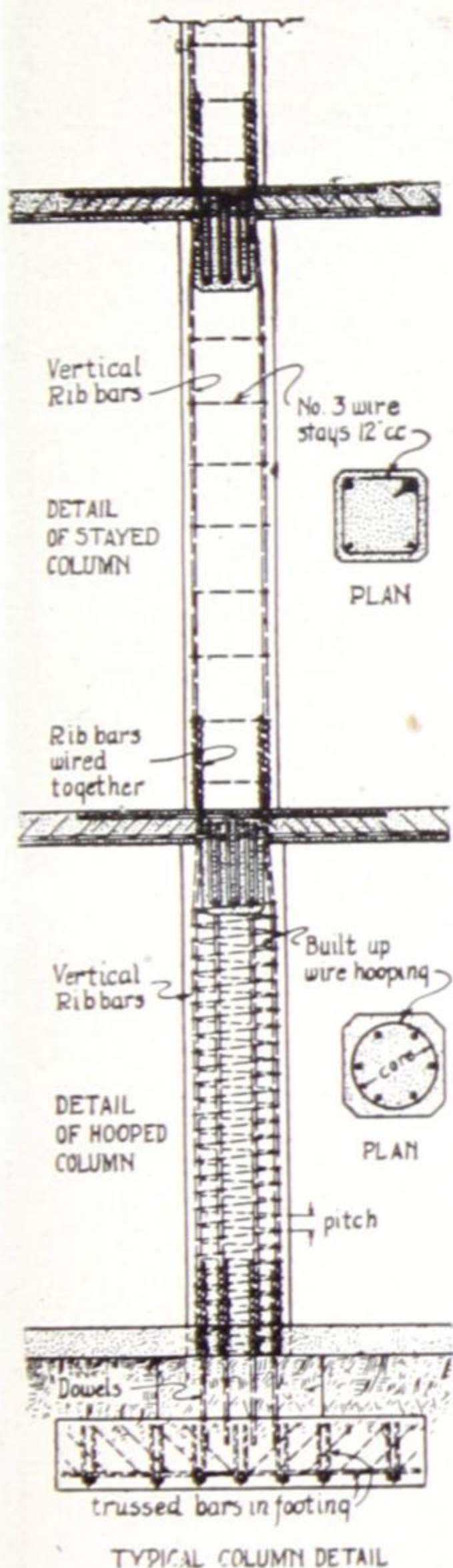


TABLE OF REINFORCED CONCRETE FOOTINGS.

Span, Value per Sq. Ft.	3000 LBS.				4000 LBS.				5000 LBS.			
	Size of Footing		Truscon Bars		Size of Footing		Truscon Bars		Size of Footing		Truscon Bars	
Load in Lbs. on Footing	Square	Depth	No.	Size	Square	Depth	No.	Size	Square	Depth	No.	Size
75000	5'-0"	1'-0"	14	1"x1"	4'-6"	0'-10"	14	1"x1"	4'-0"	0'-10"	10	1"x1"
100000	5'-0"	1'-2"	16	1"x1"	5'-0"	1'-0"	16	1"x1"	4'-6"	0'-10"	16	1"x1"
125000	6'-0"	1'-3"	12	1"x2"	5'-6"	1'-1"	12	1"x2"	5'-0"	1'-0"	18	1"x1"
150000	7'-0"	1'-5"	14	1"x2"	6'-3"	1'-3"	12	1"x2"	5'-6"	1'-1"	12	1"x2"
175000	7'-0"	1'-7"	16	1"x2"	6'-9"	1'-4"	14	1"x2"	6'-0"	1'-2"	14	1"x2"
200000	8'-3"	1'-8"	18	1"x2"	7'-0"	1'-5"	14	1"x2"	6'-3"	1'-3"	14	1"x2"
225000	8'-9"	1'-9"	20	1"x2"	7'-6"	1'-6"	18	1"x2"	6'-9"	1'-4"	16	1"x2"
250000	9'-3"	1'-10"	22	1"x2"	8'-0"	1'-7"	22	1"x2"	7'-0"	1'-5"	16	1"x2"
275000	9'-6"	1'-11"	24	1"x2"	8'-3"	1'-8"	22	1"x2"	7'-6"	1'-6"	20	1"x2"
300000	10'-0"	2'-0"	26	1"x2"	8'-9"	1'-9"	26	1"x2"	8'-0"	1'-7"	20	1"x2"
325000	10'-6"	2'-1"	20	1"x2"	9'-0"	1'-9"	28	1"x2"	8'-6"	1'-7"	22	1"x2"
350000	10'-9"	2'-2"	20	1"x2"	9'-6"	1'-11"	18	1"x2"	9'-0"	1'-8"	24	1"x2"
375000	11'-3"	2'-3"	20	1"x2"	9'-9"	1'-11"	18	1"x2"	9'-6"	1'-9"	26	1"x2"
400000	11'-6"	2'-3"	22	1"x2"	10'-0"	2'-0"	18	1"x2"	9'-9"	1'-9"	26	1"x2"
425000	12'-0"	2'-5"	22	1"x2"	10'-3"	2'-7"	20	1"x2"	9'-9"	1'-9"	26	1"x2"
450000	12'-3"	2'-5"	24	1"x2"	10'-9"	2'-8"	22	1"x2"	9'-9"	1'-9"	26	1"x2"
475000	12'-6"	2'-6"	24	1"x2"	11'-0"	2'-9"	22	1"x2"	10'-0"	2'-5"	16	1"x2"
500000	13'-0"	2'-7"	26	1"x2"	11'-3"	2'-10"	24	1"x2"	10'-3"	2'-6"	18	1"x2"
525000	13'-3"	2'-8"	26	1"x2"	11'-6"	2'-11"	24	1"x2"	10'-6"	2'-7"	22	1"x2"
550000	13'-6"	2'-8"	26	1"x2"	11'-9"	2'-11"	26	1"x2"	10'-9"	2'-7"	22	1"x2"
575000	13'-9"	2'-9"	30	1"x2"	12'-0"	3'-0"	26	1"x2"	10'-9"	2'-8"	24	1"x2"
600000	14'-3"	2'-10"	32	1"x2"	12'-3"	3'-1"	26	1"x2"	11'-0"	2'-9"	26	1"x2"

Trussed Concrete Steel Company of Canada, Limited

TABLE OF REINFORCED CONCRETE FOOTINGS.

SOIL VALUE PER Sq. Ft.	7000 LBS.				8000 LBS.				9000 LBS.				10,000 LBS.			
	SIZE OF FOOTING		TRUSSED BARS		SIZE OF FOOTING		TRUSSED BARS		SIZE OF FOOTING		TRUSSED BARS		SIZE OF FOOTING		TRUSSED BARS	
Load in Lbs. on Footing	Sq.	Depth	No.	Size	Sq.	Depth	No.	Size	Sq.	Depth	No.	Size	Sq.	Depth	No.	Size
100000	4'-0"	0'-10"	12	1"x1 1/2"	4'-0"	0'-10"	16	1"x1 1/2"	4'-3"	0'-10"	16	1"x1 1/2"	4'-0"	0'-10"	12	1"x1 1/2"
125000	4'-3"	0'-10"	14	1"x1 1/2"	4'-6"	0'-10"	18	1"x1 1/2"	4'-6"	0'-10"	18	1"x1 1/2"	4'-3"	0'-10"	14	1"x1 1/2"
150000	4'-9"	0'-11"	18	1"x1 1/2"	4'-9"	0'-11"	18	1"x1 1/2"	4'-9"	0'-11"	18	1"x1 1/2"	4'-6"	0'-10"	16	1"x1 1/2"
175000	5'-0"	1'-0"	18	1"x1 1/2"	5'-0"	1'-0"	18	1"x1 1/2"	5'-0"	1'-0"	20	1"x1 1/2"	4'-9"	1'-2"	18	1"x1 1/2"
200000	5'-6"	1'-4"	12	1"x2 1/8"	5'-6"	1'-4"	14	1"x2 1/8"	5'-0"	1'-0"	20	1"x2 1/8"	5'-0"	1'-2"	18	1"x1 1/2"
225000	5'-9"	1'-5"	14	1"x2 1/8"	5'-6"	1'-4"	16	1"x2 1/8"	5'-3"	1'-4"	12	1"x2 1/8"	5'-0"	1'-3"	12	1"x2 1/8"
250000	6'-0"	1'-6"	16	1"x2 1/8"	5'-9"	1'-5"	18	1"x2 1/8"	5'-6"	1'-4"	14	1"x2 1/8"	5'-3"	1'-4"	14	1"x2 1/8"
275000	6'-3"	1'-7"	16	1"x2 1/8"	6'-0"	1'-6"	18	1"x2 1/8"	5'-9"	1'-5"	14	1"x2 1/8"	5'-6"	1'-4"	14	1"x2 1/8"
300000	6'-6"	1'-8"	18	1"x2 1/8"	6'-3"	1'-7"	18	1"x2 1/8"	5'-9"	1'-5"	14	1"x2 1/8"	5'-6"	1'-4"	14	1"x2 1/8"
325000	6'-9"	1'-8"	20	1"x2 1/8"	6'-6"	1'-8"	20	1"x2 1/8"	6'-0"	1'-6"	16	1"x2 1/8"	5'-9"	1'-5"	16	1"x2 1/8"
350000	7'-0"	1'-9"	20	1"x2 1/8"	6'-9"	1'-8"	20	1"x2 1/8"	6'-3"	1'-7"	18	1"x2 1/8"	6'-0"	1'-6"	16	1"x2 1/8"
375000	7'-3"	1'-10"	20	1"x2 1/8"	7'-0"	1'-9"	20	1"x2 1/8"	6'-6"	1'-8"	18	1"x2 1/8"	6'-3"	1'-7"	16	1"x2 1/8"
400000	7'-6"	1'-11"	22	1"x2 1/8"	7'-0"	1'-9"	20	1"x2 1/8"	6'-9"	1'-8"	20	1"x2 1/8"	6'-3"	1'-7"	16	1"x2 1/8"
425000	7'-9"	1'-11"	22	1"x2 1/8"	7'-3"	1'-10"	20	1"x2 1/8"	7'-0"	1'-9"	20	1"x2 1/8"	6'-6"	1'-8"	18	1"x2 1/8"
450000	8'-0"	2'-0"	24	1"x2 1/8"	7'-6"	1'-11"	22	1"x2 1/8"	7'-0"	1'-9"	20	1"x2 1/8"	6'-9"	1'-8"	20	1"x2 1/8"
475000	8'-3"	2'-1"	26	1"x2 1/8"	7'-9"	1'-11"	24	1"x2 1/8"	7'-3"	1'-10"	22	1"x2 1/8"	7'-0"	1'-9"	20	1"x2 1/8"
500000	8'-6"	2'-2"	30	1"x2 1/8"	8'-0"	2'-0"	26	1"x2 1/8"	7'-6"	1'-11"	24	1"x2 1/8"	7'-0"	1'-9"	20	1"x2 1/8"
525000	8'-9"	2'-2"	32	1"x2 1/8"	8'-3"	2'-1"	28	1"x2 1/8"	7'-9"	1'-11"	26	1"x2 1/8"	7'-3"	1'-10"	22	1"x2 1/8"
550000	9'-0"	2'-3"	20	1 1/4"x2 1/4"	8'-6"	2'-2"	28	1"x2 1/8"	8'-0"	2'-0"	26	1"x2 1/8"	7'-6"	1'-11"	24	1"x2 1/8"
575000	9'-0"	2'-3"	20	1 1/4"x2 1/4"	8'-6"	2'-2"	30	1"x2 1/8"	8'-0"	2'-0"	28	1"x2 1/8"	7'-6"	1'-11"	24	1"x2 1/8"
600000	9'-3"	2'-4"	22	1 1/4"x2 1/4"	8'-9"	2'-2"	32	1"x2 1/8"	8'-3"	2'-1"	30	1"x2 1/8"	7'-9"	1'-11"	26	1"x2 1/8"

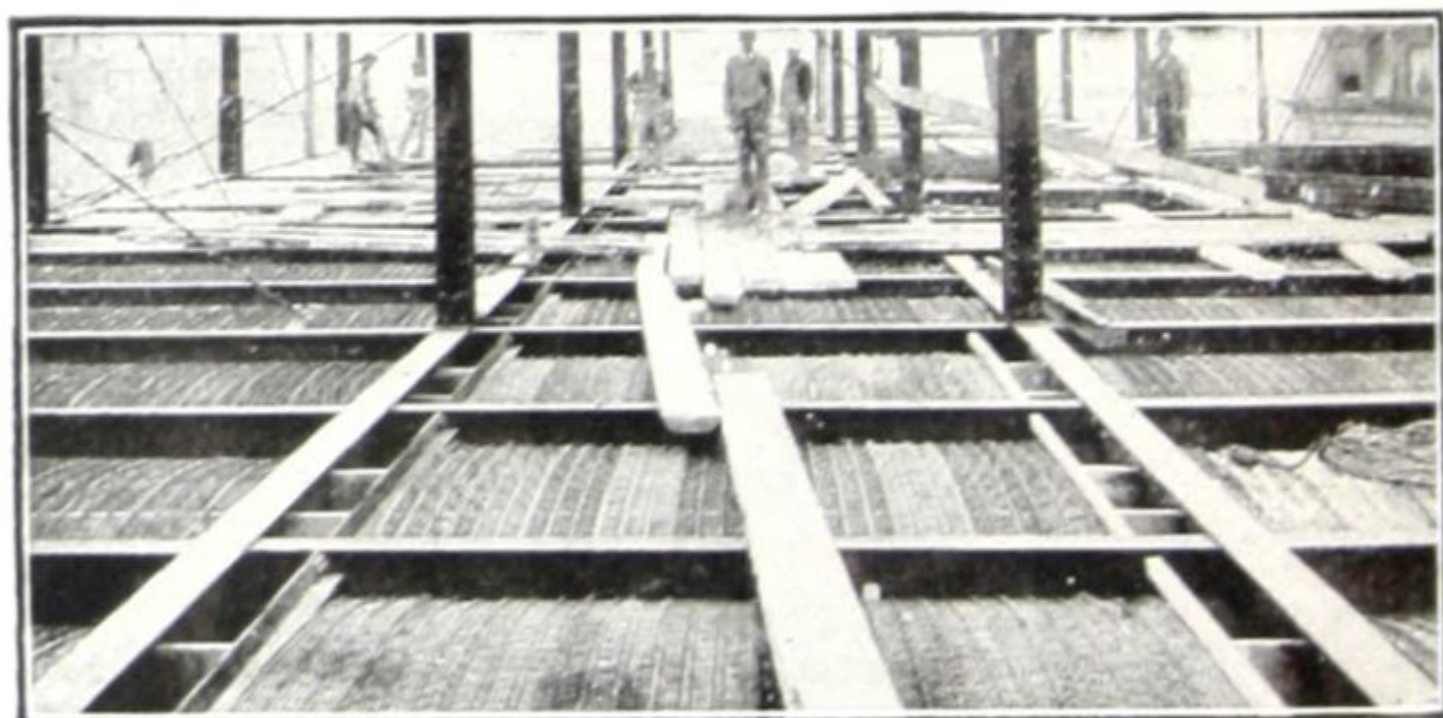
Truscon Building Products



Hy-Rib Concrete Roof—Built Without Forms



Hy-Rib Ceilings



Hy-Rib Arched Floors—No Forms Required

HY-RIB

Hy-Rib Hand-Book containing complete details, illustrations and specifications will be sent on request.

Hy-Rib is a steel sheathing, stiffened by rigid, deep ribs, formed from a single sheet of steel. **Hy-Rib** does away with the use of centering and studs in concrete construction.

Hy-Rib provides a perfect surface and clinch for plaster.

Floors and Roofs—

Merely lay the **Hy-Rib** over the supports; pour on the concrete and plaster the under side. **Hy-Rib** provides both the centering and reinforcement for the concrete, reducing costs and simplifying construction.

Walls and Sidings—

Set up the **Hy-Rib** sheets, apply the plaster to both sides, and the wall is complete. **Hy-Rib** provides a solid, monolithic wall, two inches thick, at half the cost of brick. No centering, studs or forms are required.

Partitions—

Set the **Hy-Rib** sheets up vertically; plaster both sides and the partition is complete. **Hy-Rib** does away entirely with the use of studs, saving expense, labor and time. **Hy-Rib** is more economical than lath and channels. Solid **Hy-Rib** partitions only two inches thick, save valuable floor space and are fireproof, rigid and economical.

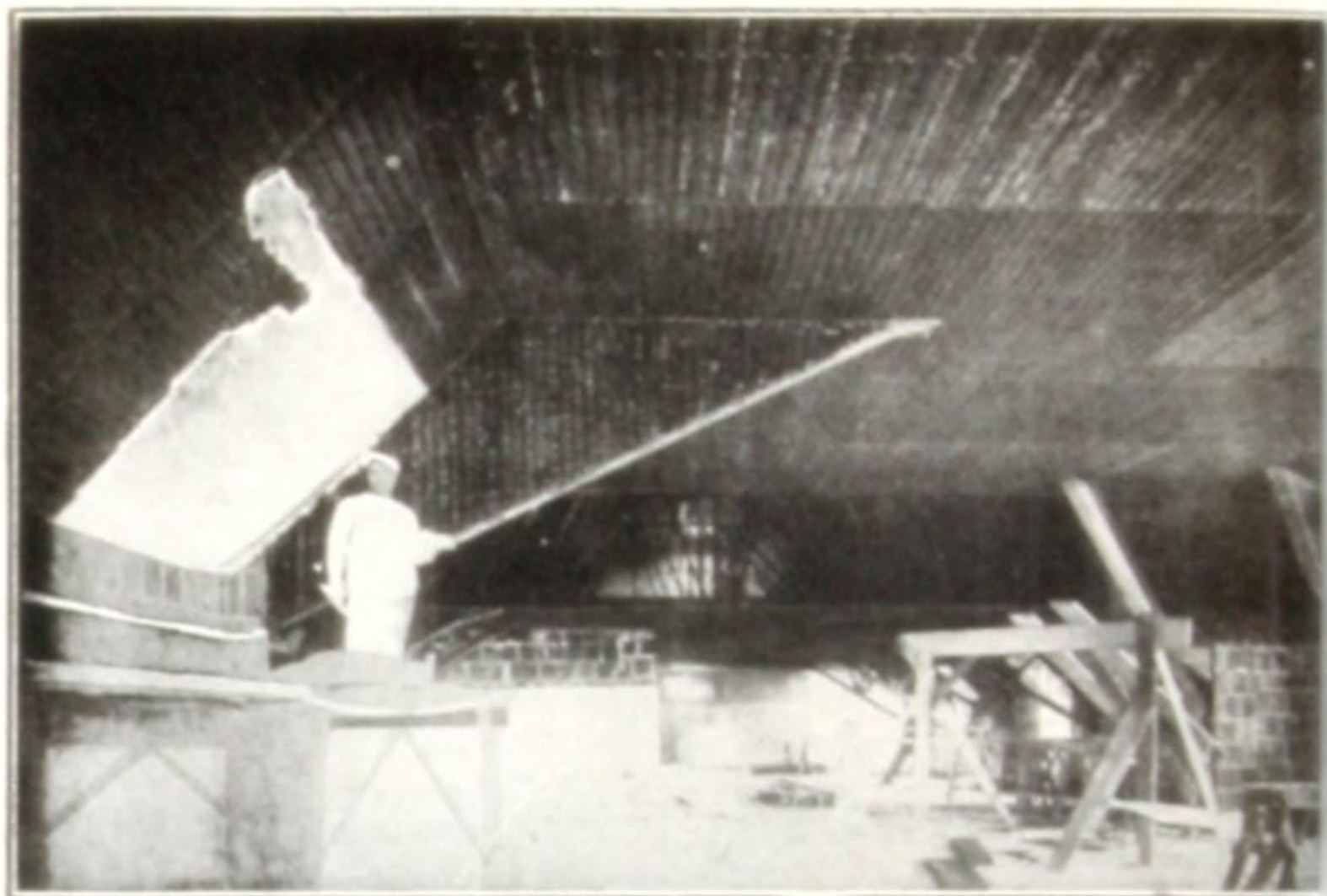
Ceilings—

Hy-Rib is attached to the lines of support and plaster applied directly to the under side. **Hy-Rib** does away entirely with the small channels, T's and angles necessary where ordinary lath is used.

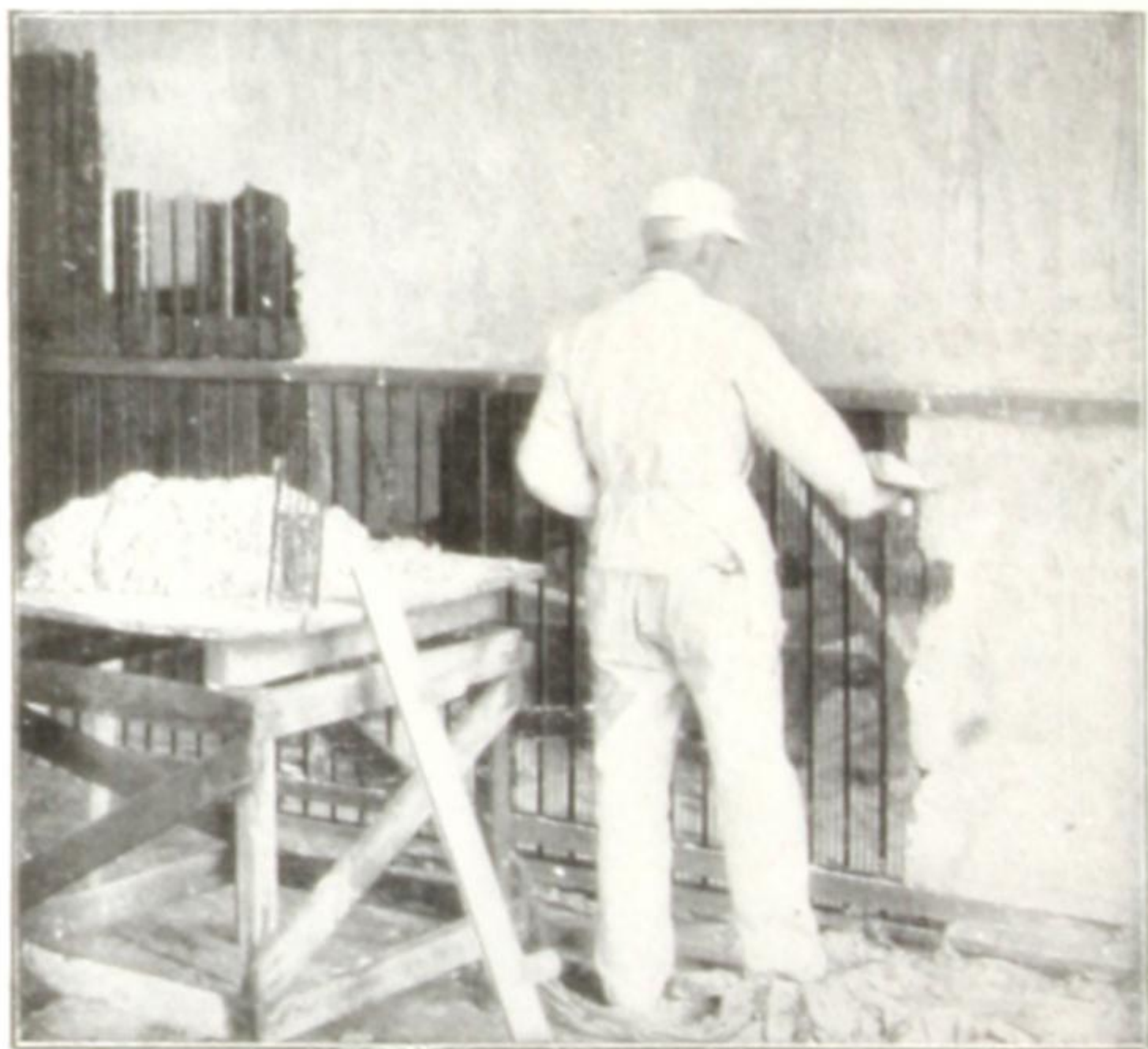
Furring—

Attach the **Hy-Rib** to wall with lath side outward and apply the plaster. **Hy-Rib** does away with furring strips.

Truscon Building Products



Hy-Rib Ceilings. No stiffening channels required.



Hy-Rib Partitions. No studs required.

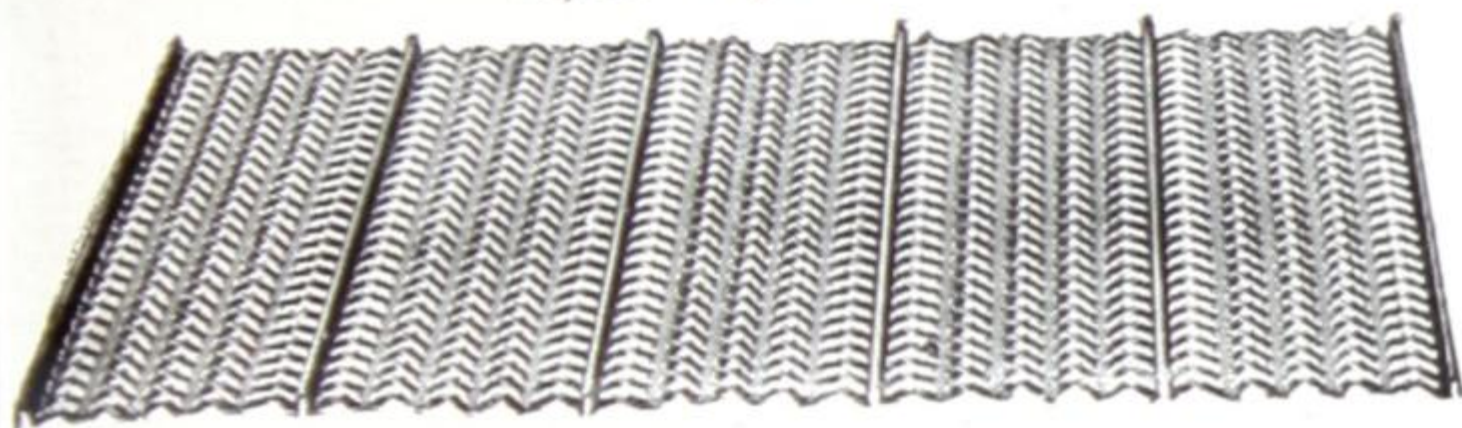
Trussed Concrete Steel Company of Canada, Limited

Why You Should Use Hy-Rib

All forms are eliminated.
No stiffening channels nor wiring are required.
Concrete and plaster are perfectly reinforced.
Labor and time are saved.
Weight of construction is reduced.
Available floor space is increased.
Fireproof, permanent and economical.



15/16" Hy-Rib



3/8" Hy-Rib

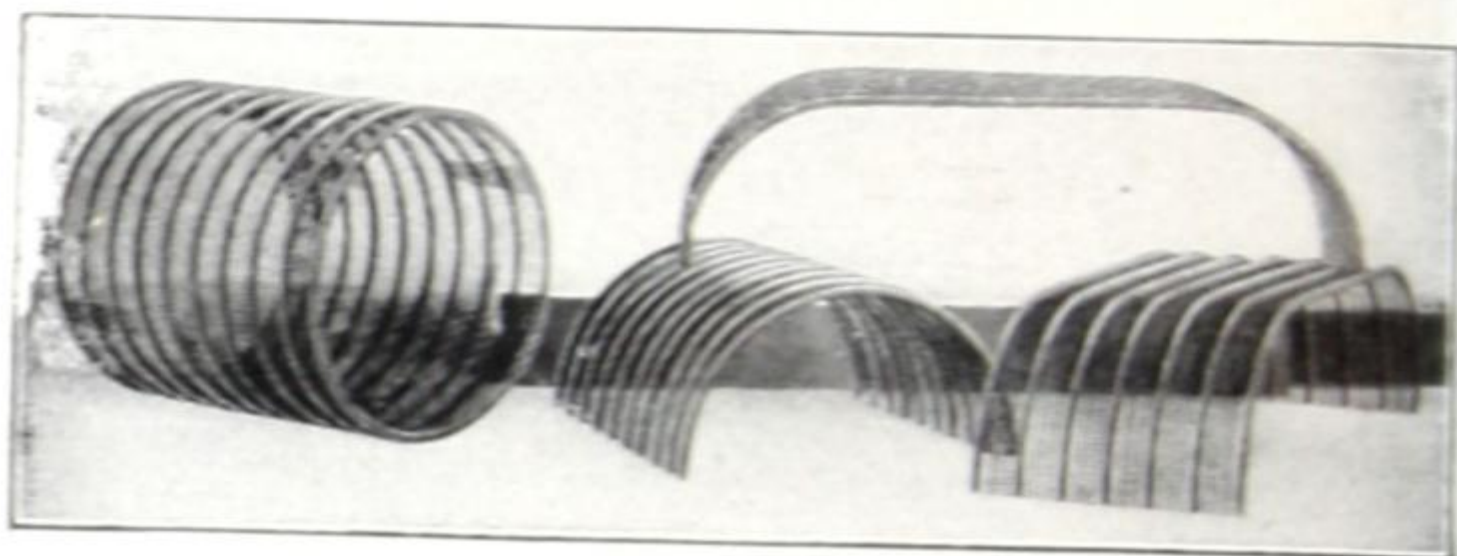
Types of Hy-Rib

Type of HY-RIB	Formerly Called	Height of Ribs	Spac- ing of Ribs	Width of Sheets	Gauge Nos. U. S. Standard
15/16" Hy-Rib	7-Rib	15/16"	4"	24"	24, 26, 28
3/8" Hy-Rib	6-Rib	3/8"	4"	20"	24, 26, 28

Standard lengths, 8, 10 and 12 feet.

Other lengths are cut from standard lengths without charge except for waste.

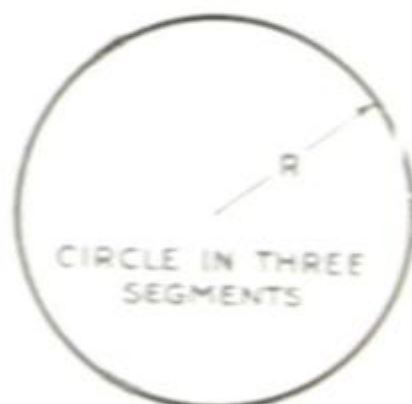
15/16" Hy-Rib is shipped in bundles of four sheets;
3/8" Hy-Rib in bundles of ten sheets.



Hy-Rib Bent to Curve in Our Shops



HY-RIB CAN BE CURVED TO ANY RADIUS GREATER THAN 13 INCHES



METHODS OF BENDING $\frac{15}{16}$ " HY-RIB FOR ARCHED FLOORS, CIRCULAR TANKS, SEWERS, SILOS, ETC.

METHODS OF BENDING $\frac{15}{16}$ " HY-RIB

Trussed Concrete Steel Company of Canada, Limited

SIDE WALLS REINFORCED WITH HY-RIB (Minimum Requirements) (Ribs of Hy-Rib running horizontally)

Span	Thick- ness	REINFORCEMENT
2'	1 3/4"	No. 28, 3/8" Hy-Rib.
2'-8"	1 3/4"	No. 26, 3/8" Hy-Rib.
3'	1 3/4"	No. 24, 3/8" Hy-Rib.
6'	1 3/4"	No. 28, 15/16" Hy-Rib.
8'	2"	No. 26, 15/16" Hy-Rib.
10'	2"	No. 26, 15/16" Hy-Rib.
12'	2 1/2"	No. 24, 15/16" Hy-Rib.

Temporary bracing should be used horizontally every 6 feet for 15/16" Hy-Rib.

PARTITIONS REINFORCED WITH HY-RIB (Minimum Requirements) (Ribs of Hy-Rib running vertically)

Height	Thick- ness	REINFORCEMENT
up to 10'	1 3/4"	No. 28, 15/16" Hy-Rib.
12'	2"	No. 28, 15/16" Hy-Rib.
14'	2 1/4"	No. 26, 15/16" Hy-Rib.
16'	2 1/2"	No. 26, 15/16" Hy-Rib.
18'	2 3/4"	No. 24, 15/16" Hy-Rib.

Temporary bracing should be used horizontally every 6 feet for 15/16" Hy-Rib.

For partitions above 25 feet high, structural supports should be erected vertically in accordance with Side Wall Table, and the Hy-Rib run horizontally. Also in special cases partitions above 12 feet which will be subjected to constant vibration, such as in factories, may have to be constructed in the same manner.

SPACING OF SUPPORTS FOR HY-RIB CEILINGS

Minimum requirements for various spans where ceilings support only their own dead weight. (Where live loads come on ceilings use table for slabs, page 36).

Spacing of Supports	REINFORCEMENT
1'-10"	No. 28, 3/8" Hy-Rib.
2'- 6"	No. 26, 3/8" Hy-Rib.
2'- 9"	No. 24, 3/8" Hy-Rib.
2'-11"	No. 28, 15/16" Hy-Rib.
3'-11"	No. 28, 15/16" Hy-Rib.
4'-11"	No. 26, 15/16" Hy-Rib.
5'-11"	No. 24, 15/16" Hy-Rib.

$\frac{15}{16}$ Hy-Rib (7-Rib) Tables

Safe Loads in Pounds per Square Foot for Slabs
Reinforced with $\frac{15}{16}$ " Hy-Rib

(See also table below)

(Safe loads include weight of slab)
(For safe live loads, deduct weight of slab)

Thickness of slabs above base of sheathing	Gauge No. $\frac{15}{16}$ " Hy-Rib	Moment of re- sistance per foot of width	SPAN IN FEET							
			3	4	5	6	7	8	9	10 11
2" thick slab	28	3140	291	164	104	73				
Wt. = 24 lbs.	26	3770	348	196	125	87				
per sq. ft.	24	5020	464	261	167	117				
2½" thick slab	28	4080	377	212	136	94	69	53		
Wt. = 30 lbs.	26	4900	453	255	163	113	83	63		
per sq. ft.	24	6530	605	340	217	152	111	85		
3" thick slab	28	5020	464	261	167	116	85	65		
Wt. = 36 lbs.	26	6020	558	314	200	140	102	78	62	
per sq. ft.	24	8020	742	417	267	186	136	104	82	
3½" thick slab	28	5960	551	310	198	138	101	77		
Wt. = 42 lbs.	26	7150	660	371	238	165	122	93	73	
per sq. ft.	24	9530	882	496	317	221	162	124	98 79	
4" thick slab	28	6900	638	358	230	160	117	90	71	
Wt. = 48 lbs.	26	8270	768	431	276	192	140	108	86 69	
per sq. ft.	24	11030	1020	572	367	256	188	144	114 92 76	

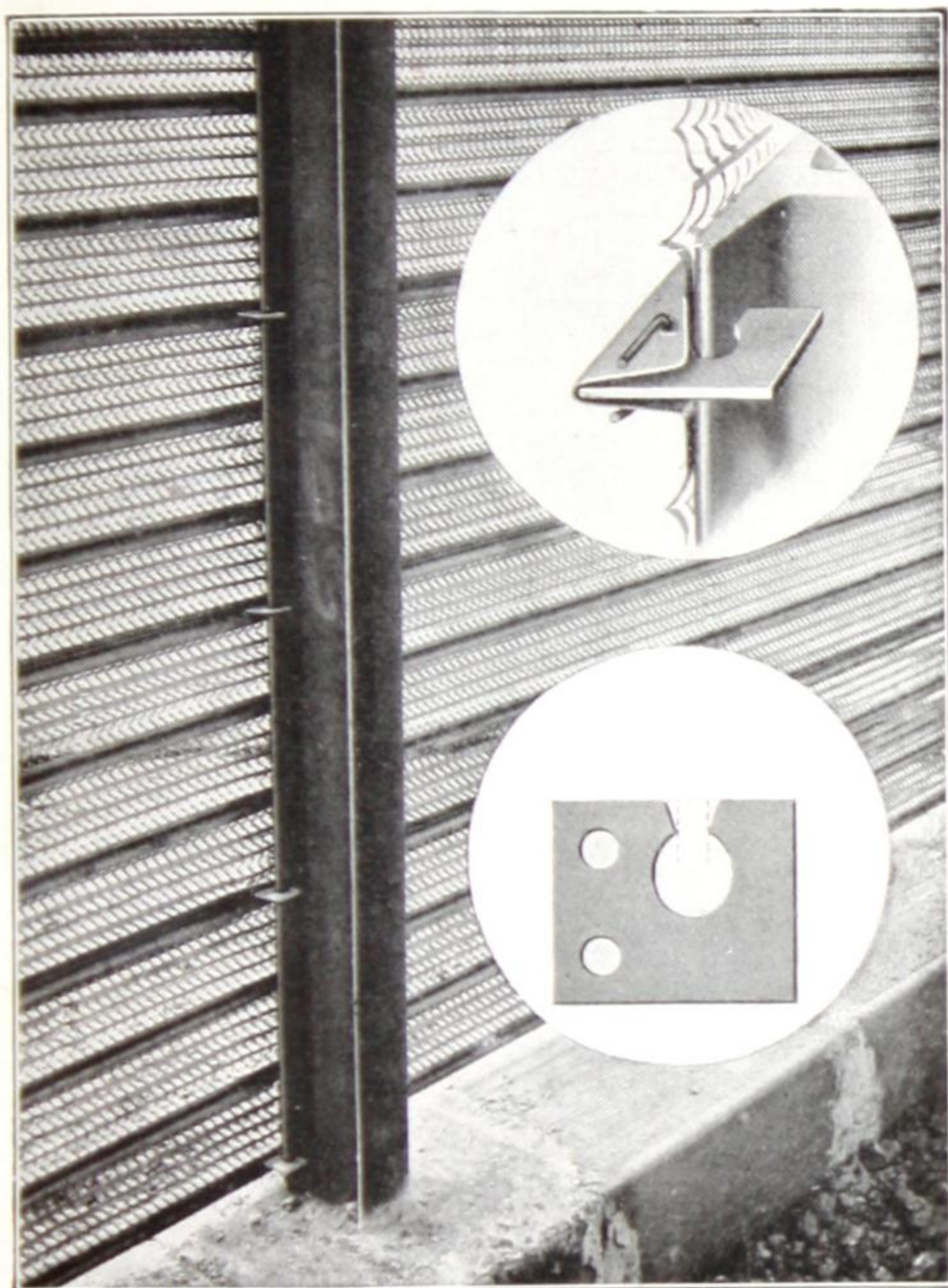
B. M. = $\frac{1}{16} w l^2$. For B. M. = $\frac{1}{12} w l^2$, add 20% to above loads.
For B. M. = $\frac{1}{8} w l^2$, deduct 20% from above loads.

Maximum Spans for $\frac{15}{16}$ " Hy-Rib (7-Rib) as Centering

To support various thicknesses of wet concrete. For greater spans use temporary supports.

Gauge of $\frac{15}{16}$ " Hy-Rib	THICKNESS OF SLAB					
	1½"	2"	2½"	3"	3½"	4"
No. 28	3' 5"	3' 0"	2' 8"	2' 5"	2' 3"	2' 1"
No. 26	3' 9"	3' 3"	2' 11"	2' 8"	2' 6"	2' 4"
No. 24	4' 4"	3' 9"	3' 4"	3' 1"	2' 10"	2' 8"

**Trussed Concrete Steel Company
of Canada, Limited**



HY-RIB PLATE CLIPS

These clips are made of spring steel, and when driven on to the flange of the steel work, bite into the steel, gripping it like the jaws of a vise. A simple, rigid, and inexpensive method of attaching Hy-Rib to structural steel. Plate Clips should be located at the interlocking side splice between sheets.

Sizes: $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ".



Patent
applied
for.

HY-RIB PUNCH

Length of Handles
30 Inches

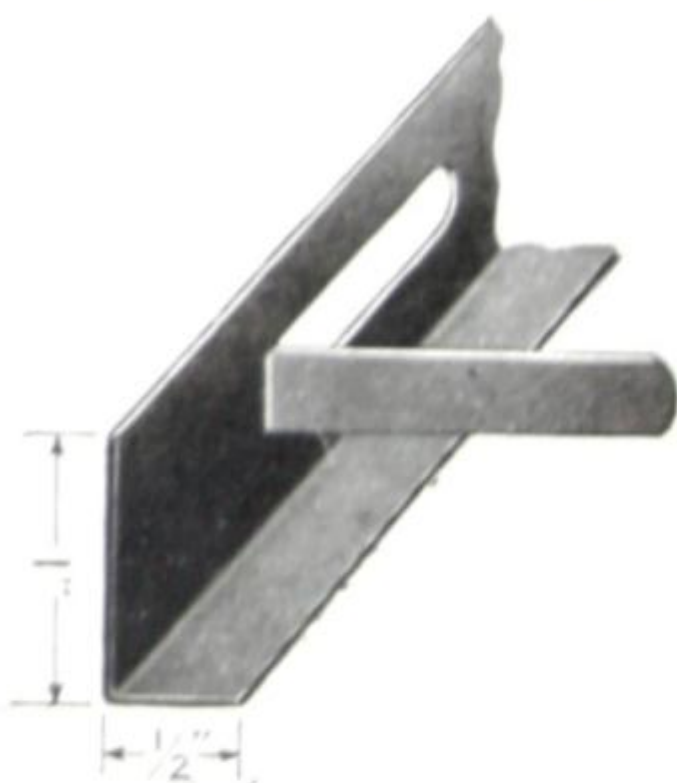
Used for fastening **Hy-Rib** sheets together by merely clamping the interlocked ribs, and for punching holes through Ribs, especially for Plate Clips.



HY-RIB CUTTER

For Shearing All
Types of Hy-Rib

A portable shear for cutting **Hy-Rib** to any desired length on the job. Furnished complete, ready for mounting.



22 GAUGE TONGUE ANGLES

For attaching **Hy-Rib** in partitions and walls.

Length—5 feet.

Supplied in bundles of 25 angles.

Spacings of tongues, 7 or 8 inches.



RIB CLIPS

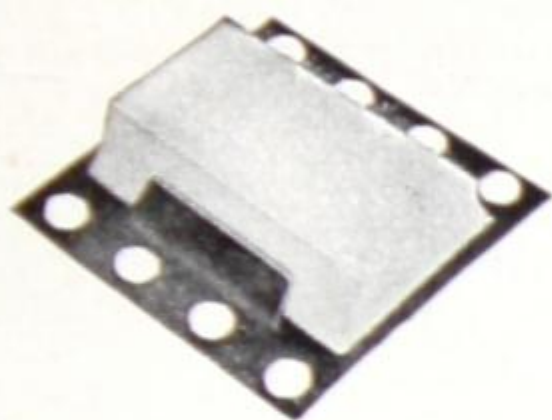
Rib Clips are shipped with one end bent and other end straight as shown by dotted lines.

Rib Clips are used principally for supporting **Hy-Rib** ceilings from steel beams; also for attaching top of **Hy-Rib** partition to steel beams.

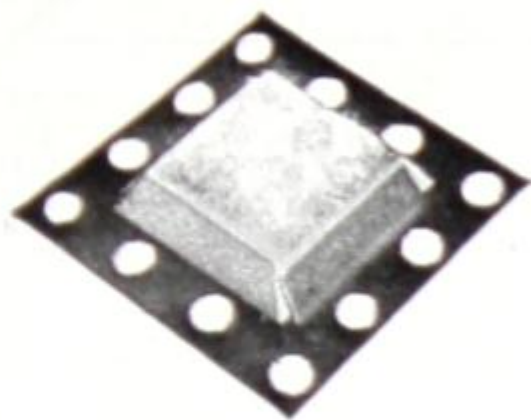
For Walls, Sidings, Roofs, etc., use Plate Clips (page 37).

TRUSCON SPOT GROUNDS

Save 50 per cent of cost of grounding



Floor Spot Ground



Wall Spot Ground

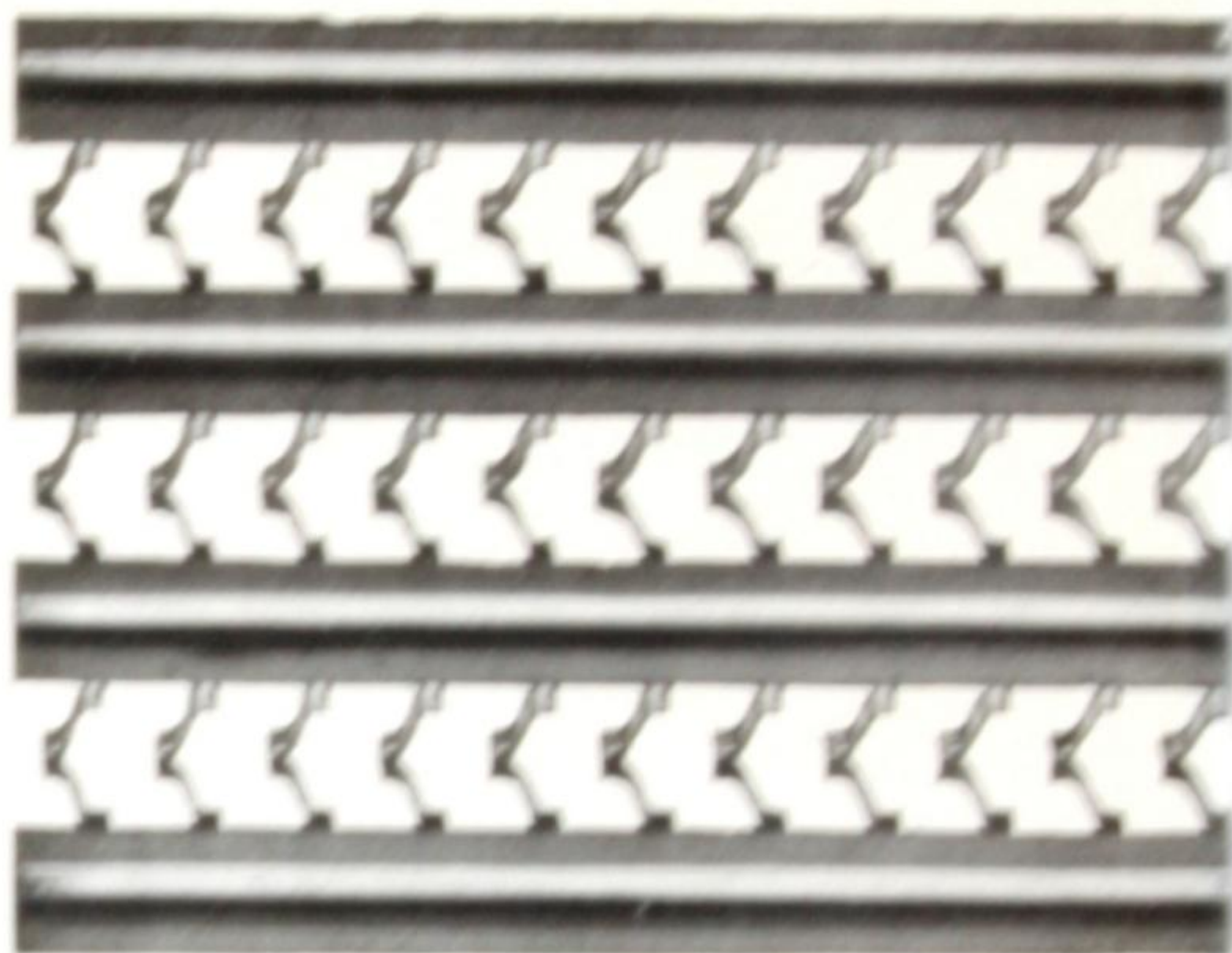
A **SPOT GROUND** is a nailing block of wood, held in a metal plate.

SPOT GROUNDS are used for attaching wood or metal trim to walls, screeds to floor slabs, securing plumbing, electrical fixtures, etc. On floors they eliminate the necessity of using cinder fill.

SPOT GROUNDS are applied to any surface by the use of plaster which, besides the direct bond, comes through the holes in the plate and keys it firmly in place. They adhere to any surface—metal lath, concrete, brick, hollow tile, gypsum block, etc.—with equal tenacity, and give you level, rigid grounds to nail into.

SPOT GROUNDS are revolutionizing old methods of grounding, replacing the tedious, antiquated methods of plugs and continuous strip. Wooden plugs shrink and become loose, allowing trim to pull away from the wall. The old type continuous strip will spring, loosening and chipping off plaster, necessitating patching. Wooden nailing blocks set between tile, wall plugs and toggle bolts are expensive, requiring continuous strip, much labor and are inefficient. Sixteen 8-penny nails have been driven into a single **SPOT GROUND** without loosening the ground or cracking the plaster—no danger of **SPOT GROUNDS** pulling loose.

**Over twelve million Spot Grounds
were used last year**



TRUSCON LO-RIB

A very economical roof, as it permits of wider spacing of the studs and affords a very good covering on light wall materials. Permits two-man work instead of three.

Size of sheets—45½ x 96 inches

Shipped in bundles containing 16 sheets, or 15½ yards

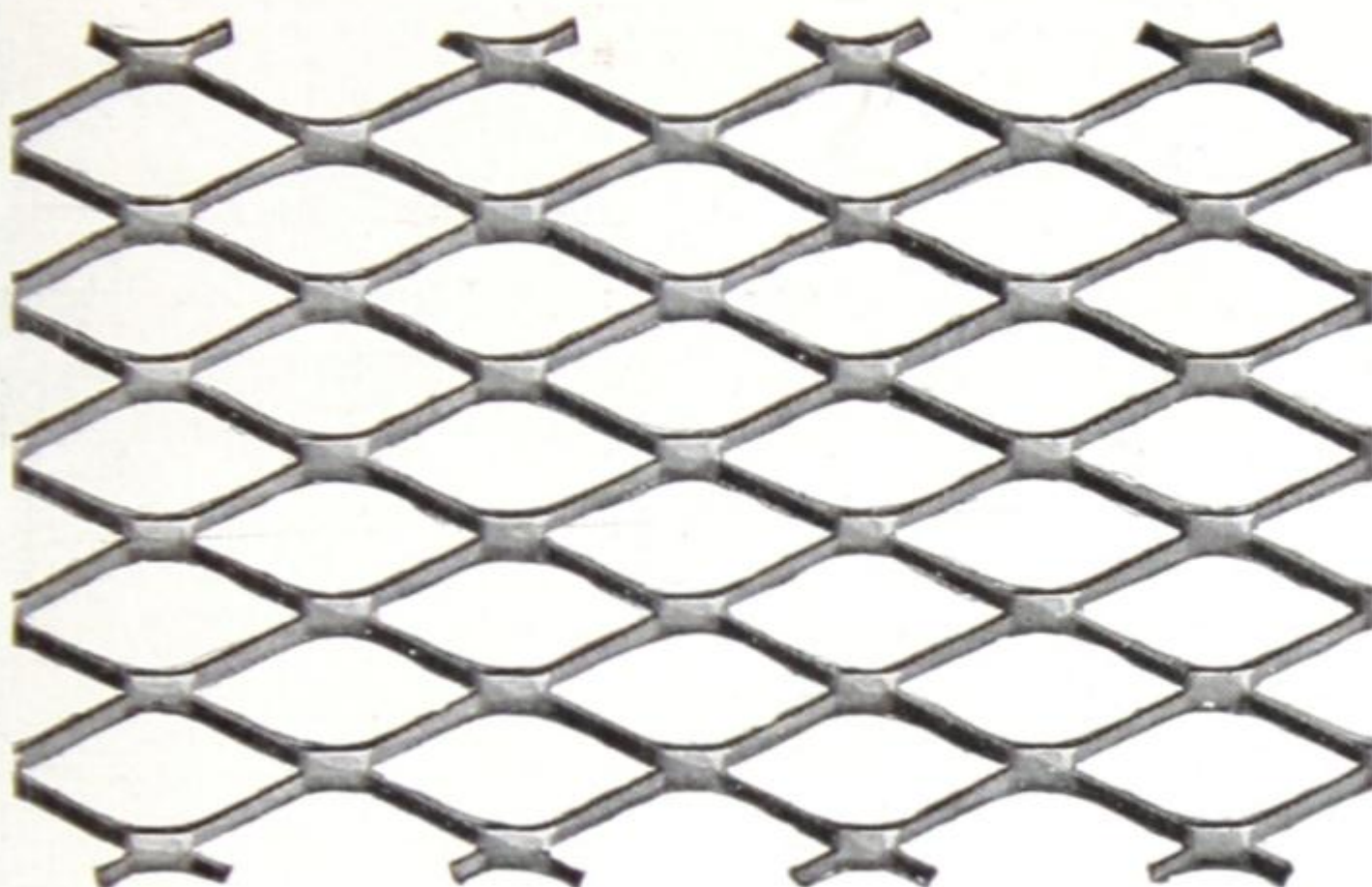
Grade	Weight per sq. yd.	Maximum stud spacing for walls x 16 x 16	Maximum stud spacing for ceiling x 16 x 16
Lo-Rib No. 1	2.86 lbs.	18"	18"
Lo-Rib No. 2	6.56 lbs.	24"	18"
Lo-Rib No. 3	6.66 lbs.	24"	22"

Manufactured in Japan. Made of Copper Bearing Steel.
All Painted.

Advantages of Lo-Rib—Softest metal roof because of ribs. Permits perfect finish for glazes. Requires minimum amount of glazes. Permits flat rigid surface for glazes.

See also ½" Hy-Rib, page 81

Trussed Concrete Steel Company
of Canada, Limited



TRUSCON DIAMOND MESH LATH

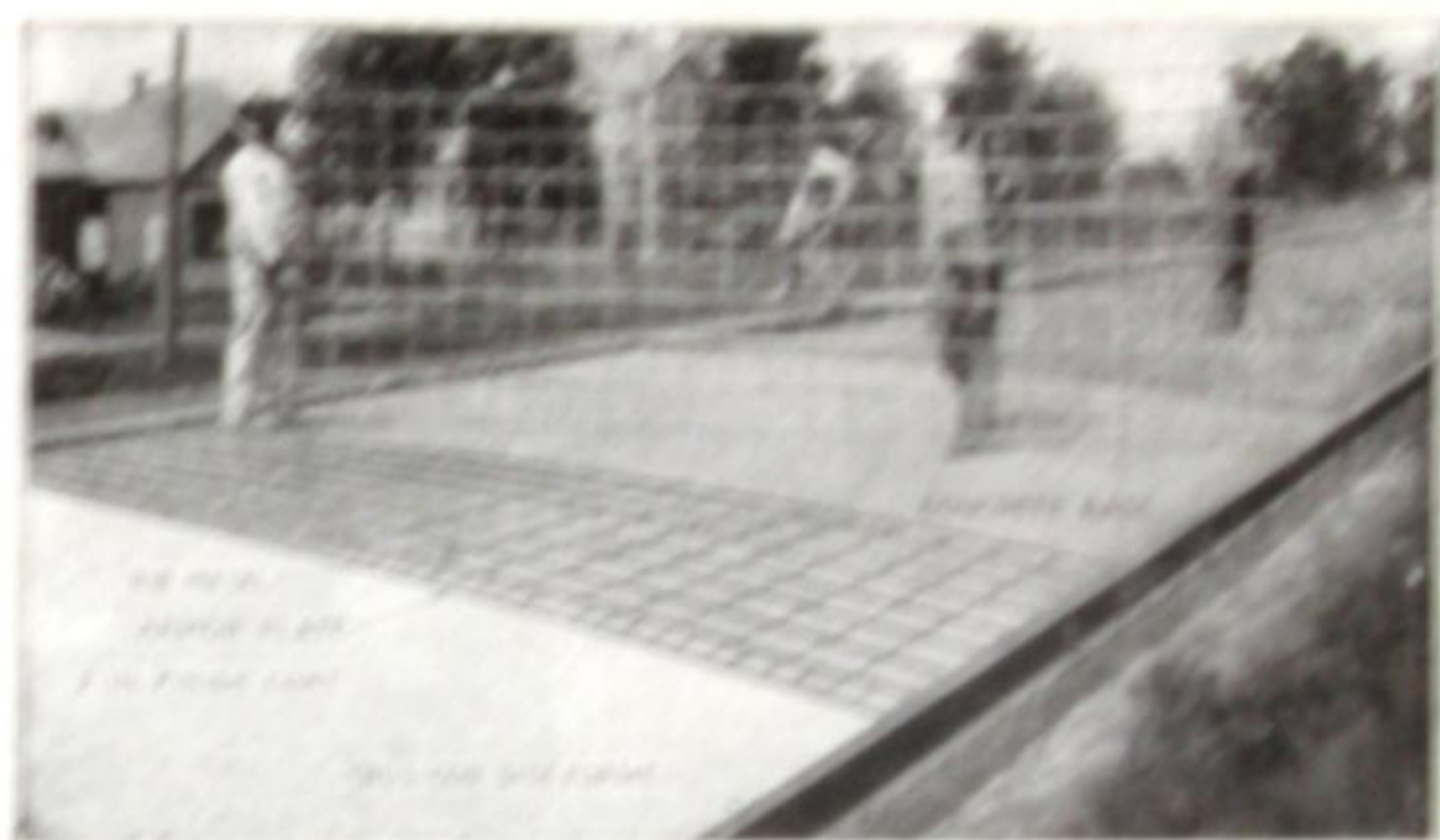
Size of Sheet, 24 x 97 inches

Truscon Diamond Mesh Lath is of the highest grade of expanded metal lath. Extreme care is taken in its manufacture and in offering it, we feel confident of its superiority.

It is furnished in Open Hearth or Copper Bearing Steel

It is easy to handle and will give absolute satisfaction in every case

Gauge	Sheets per Bundle	Yards per Bundle	Weight per Square Yard PAINTED	Weight per Square Yard GALVANIZED
No. 26	9	16	2.25 lbs.	2.69 lbs.
No. 24	9	16	3.00 "	3.36 "



12 ft. x 12 ft. of Rib Metal Reinforcement handled as easily as a single bar.

RIB METAL

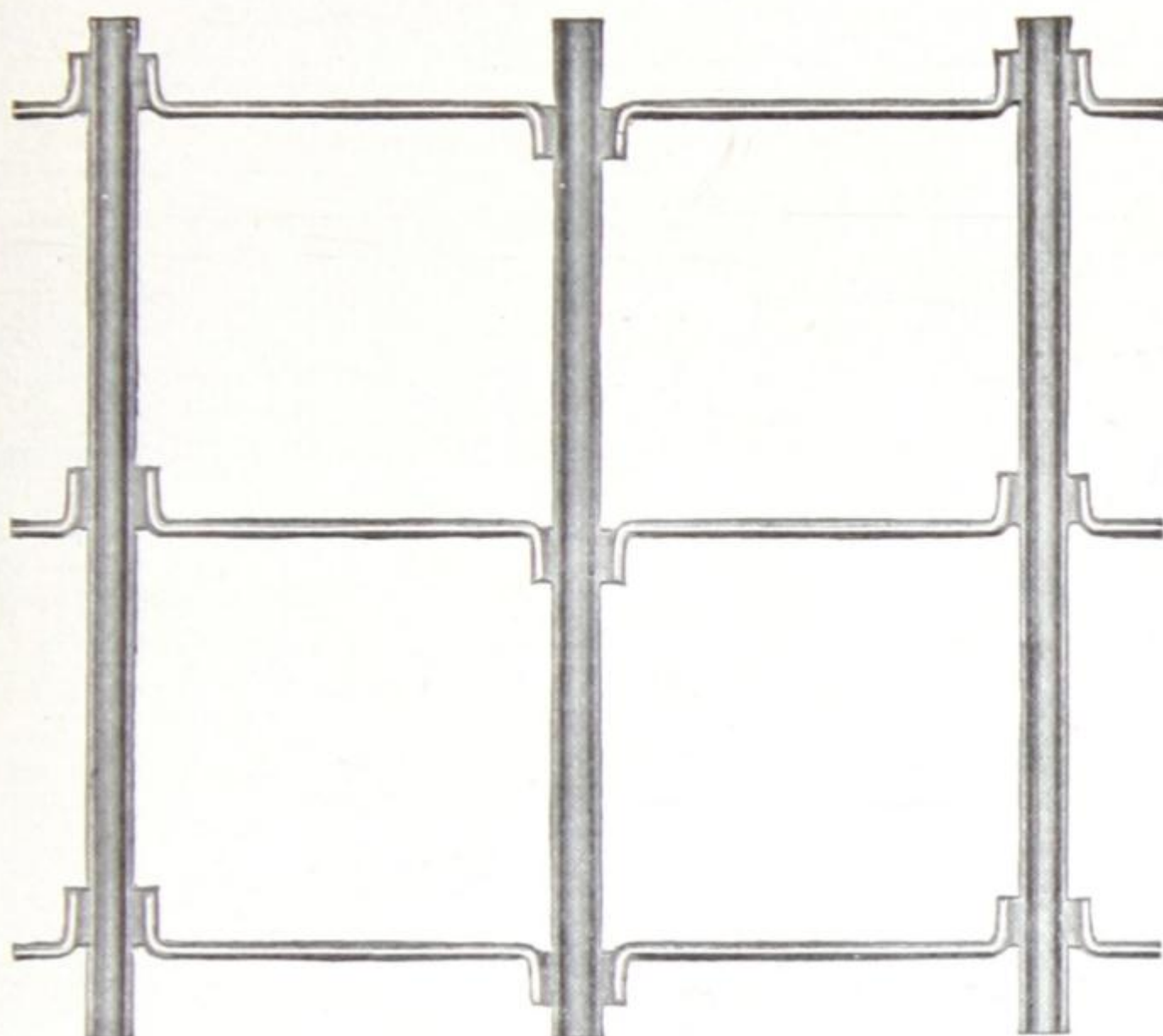
Rib Metal consists of a series of nine straight bars or ribs rigidly connected by cross members formed from the same sheet of steel. These cross members accurately space and thoroughly anchor the main bars in the concrete providing a perfect reinforcement against temperature and shrinkage strains.

The ribs span in the direct line of the greatest strain and are stiff and rigid, assuring their accurate location in the concrete.

Rib Metal is a superior reinforcement for concrete pavements, preventing cracks caused by frost heaves and settlements of sub-soil. There is no unrolling of coils, no cutting to lengths, nor special labor to fasten steel in place.

Rib Metal is furnished in flat sheets for floors, roads, walls, vaults, etc., or bent to exact curve of arches, conduits, sewers, reservoirs, tanks, etc.

Trussed Concrete Steel Company of Canada, Limited



Properties of Rib Metal

Area of one Rib—.09 sq.in. (9 Ribs in one sheet)

Size No.	Width of Standard Sheet	Sq. Ft. per Lineal Ft.	Area per Foot of Width	Weight per Sq. Ft.
2	16 in.	1.33	.54 sq. in.	2.025 lbs.
3	24 in.	2.00	.36 sq. in.	1.340 lbs.
4	32 in.	2.67	.27 sq. in.	.997 lbs.
5	40 in.	3.33	.216 sq. in.	.792 lbs.
6	48 in.	4.00	.18 sq. in.	.655 lbs.
7	56 in.	4.67	.154 sq. in.	.557 lbs.
8	64 in.	5.33	.135 sq. in.	.484 lbs.

All lengths up to 18 feet.

Furnished in flat or curved sheets.

Curved to a segment slightly greater than $\frac{1}{3}$ circle or less.

SAFE LIVE LOADS IN POUNDS PER SQUARE FOOT FOR SLABS REINFORCED WITH RIB METAL

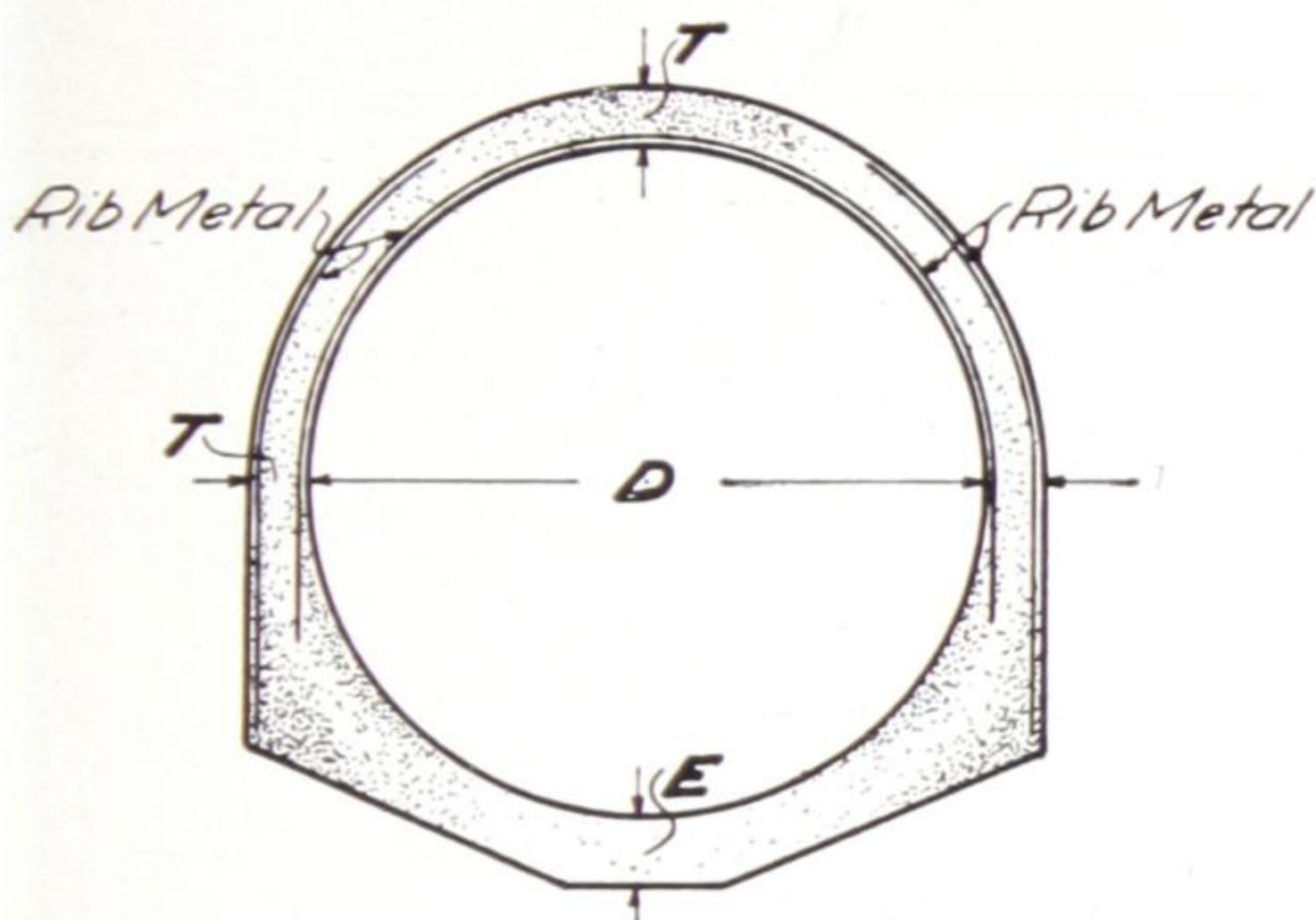
3-Inch Slab						3½-Inch Slab						
Span in Feet	MESH					Span in Feet	MESH					
	4	5	6	7	8		3	4	5	6	7	8
3	824	652	537	455	394	4	732	539	412	345	290	248
4	447	351	286	240	206	5	454	330	255	206	170	144
5	273	212	170	140	119	6	309	222	169	134	109	90
6	179	136	107	87	71	7	211	148	110	84	66	53
7	122	90	69	54	43	8	152	104	74	55	41	31
8	85	61	45	33	25	9	111	73	50	34	23	

4-Inch Slab						4½-Inch Slab							
Span in Feet	MESH					Span in Feet	MESH						
	3	4	5	6	7		8	3	4	5	6	7	8
4	856	630	494	404	339	281	4	978	720	566	462	398	333
5	531	386	299	241	200	169	5	606	441	342	276	229	194
6	354	253	193	153	124	103	6	406	291	222	176	143	118
7	248	174	130	98	79	63	7	284	199	148	114	91	73
8	179	122	88	65	49	37	8	204	140	101	75	57	43
9	131	86	59	41	28	19	9	150	99	68	48	33	23
10	97	61	39	24			10	111	70	45	29		
11	70	41	24				11	83	49	28			
							12	61	32				

5-Inch Slab						6-Inch Slab									
Span in Feet	MESH					Span in Feet	MESH								
	2	3	4	5	6		7	8	2	3	4	5	6	7	8
4	1682	1101	811	637	521	438	376	4	2057	1347	988	780	638	538	458
5	1056	684	498	386	312	258	219	5	1292	837	610	474	383	318	269
6	714	456	327	250	198	162	134	6	877	561	403	308	244	199	165
7	510	320	225	168	130	103	83	7	625	393	277	207	160	126	102
8	376	231	158	114	85	65	49	8	460	283	194	141	105	80	61
9	285	170	113	88	55	39	26	9	349	209	139	96	68	48	34
10	219	126	80	52	33	20		10	269	155	99	64	42	25	
11	171	94	56	32	17			11	210	116	69	41	22		
12	134	69	37	18				12	165	86	47	23			
13	105	50	22					13	130	63	29				
								14	102	44					
								15	80	39					

B. M. = $\frac{1}{16} w l^2$ Stress in steel = 16,000 pounds per square inch

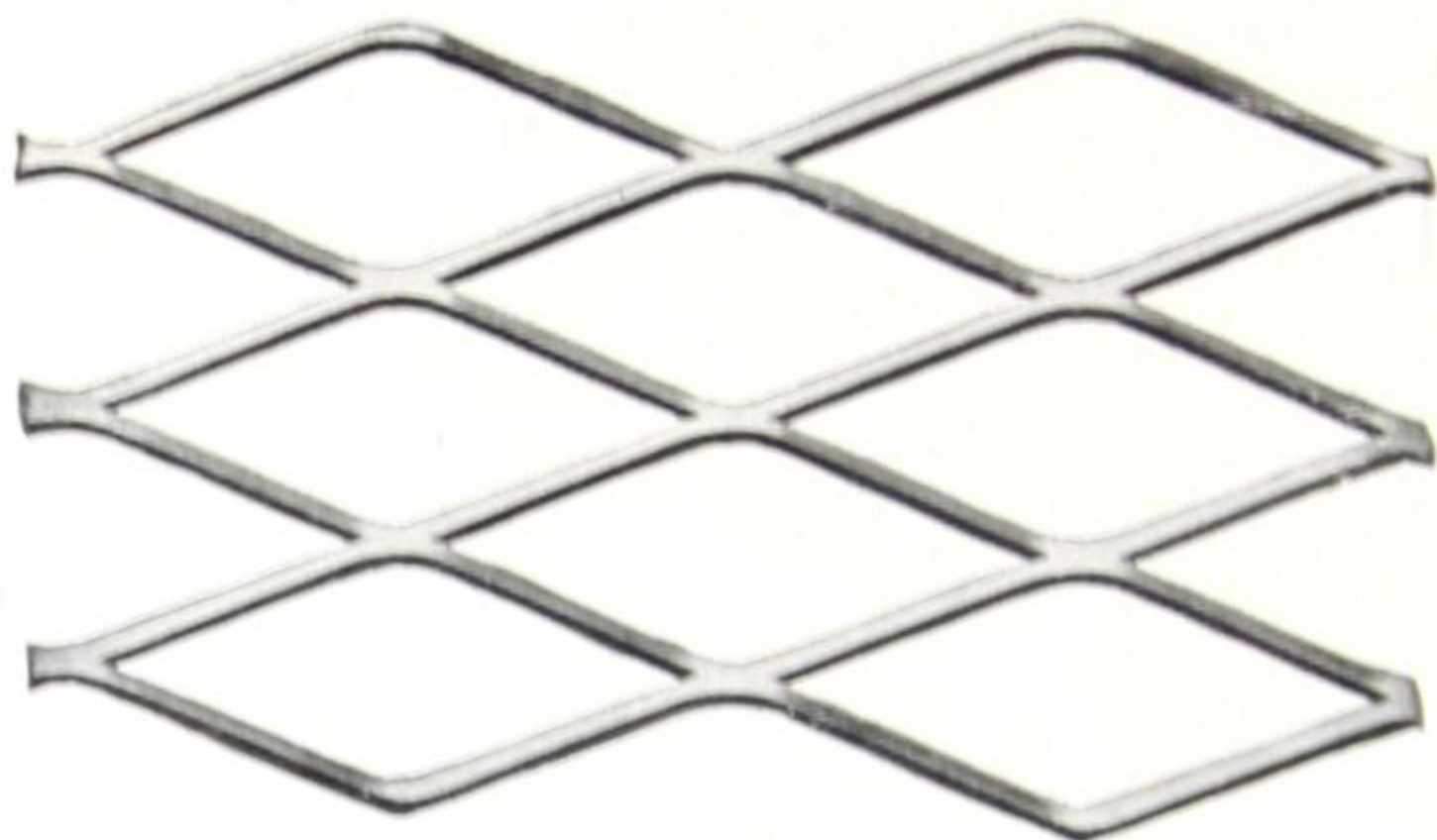
Trussed Concrete Steel Company
of Canada, Limited



CONCRETE SEWERS REINFORCED WITH RIB METAL

(Table gives size of Rib Metal for various depths of fill.)

Size (D)	T (in.)	E (in.)	DEPTH OF FILL OVER SEWER						
			6 ft.	7 ft.	8 ft.	9 ft.	10 ft.	12 ft.	14 ft. and over
27"	4	4	8	8	8	8	8	8	8
30"	4	4	8	8	8	8	8	8	8
33"	4	4	8	8	8	8	3	8	8
36"	4	5	8	8	8	8	8	8	8
39"	4	5	8	8	7	7	7	7	7
42"	4	5	8	7	6	6	6	6	6
45"	5	6	8	8	7	7	7	7	7
48"	5	6	8	7	6	6	6	6	6
54"	5	7	6	6	5	4	4	4	4
60"	5	7	5	4	4	4	3	3	3
66"	6	8	5	4	4	4	3	3	3
72"	6	8	4	3	3	3	3	3	3
78"	7	9	4	4	4	3	3	2	
84"	7	10	4	3	3	3	2	2	
96"	8	10	3	3	3	2	2	2	

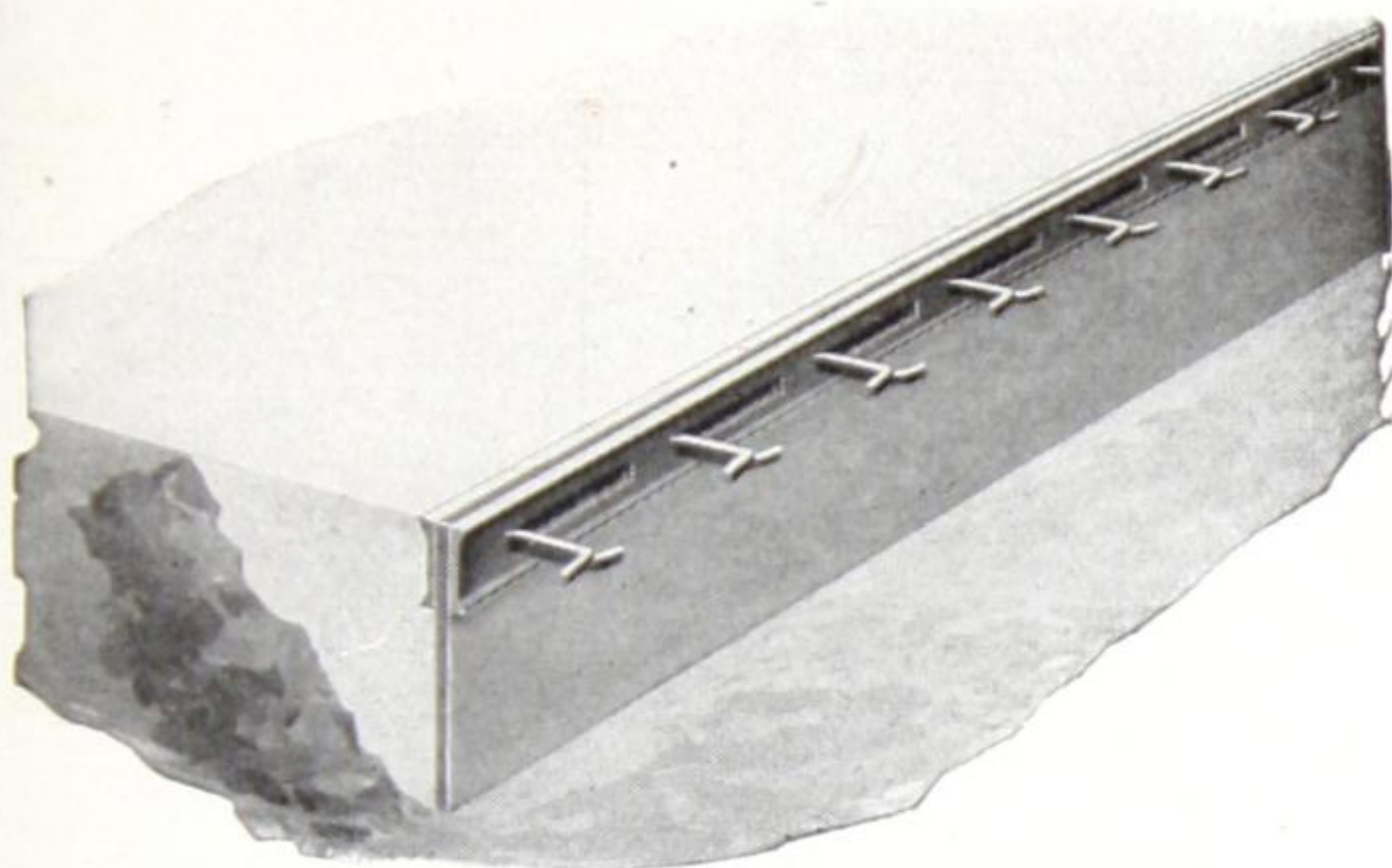


TRUSCON ROAD MESH

Truscon Road Mesh is an improved form of Diamond Mesh Expanded Metal manufactured by a cold drawn process, assuring great ultimate strength and high elastic limit. The effect of this process of manufacturing is not unlike the cold working of any steel whereby its quality is improved, the ultimate strength increased and its elastic limit more than doubled. **Truscon Road Mesh** provides a taut reinforcement free from kinks, a large flat sheet which forms a perfect bond with the concrete.

Truscon Road Mesh is furnished in sheets 8, 10 and 12 feet long by 5 feet broad with a mesh measuring 6x12 inches for reinforcement of concrete roads and pavements. The standard of designating the material gives the weight per 100 square feet.

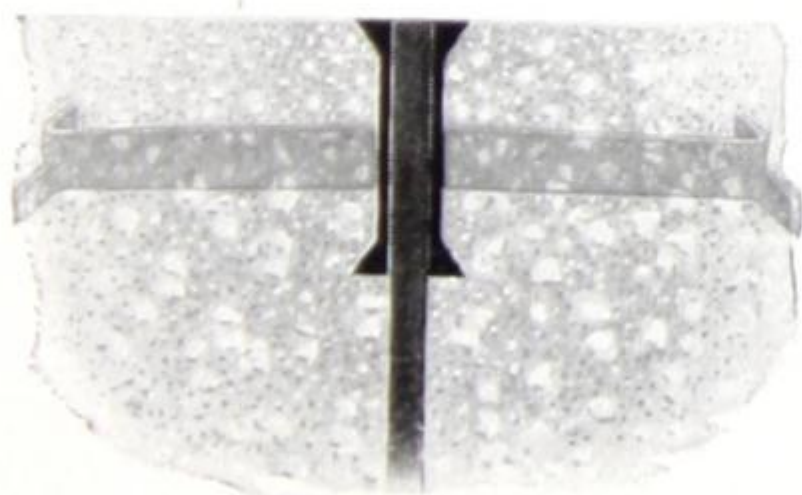
Truscon Road Mesh is the ideal material and has been extensively used for reinforcing concrete roads and pavements. The large flat sheets are easily handled and placed without requiring fastening. There is no unrolling of coils, nor cutting to length required. The large open mesh and integral anchorage assures perfect reinforcement and bond.



Joint in concrete pavement protected by Truscon Road Expansion Plates with filler between them.

TRUSCON ROAD EXPANSION PLATES

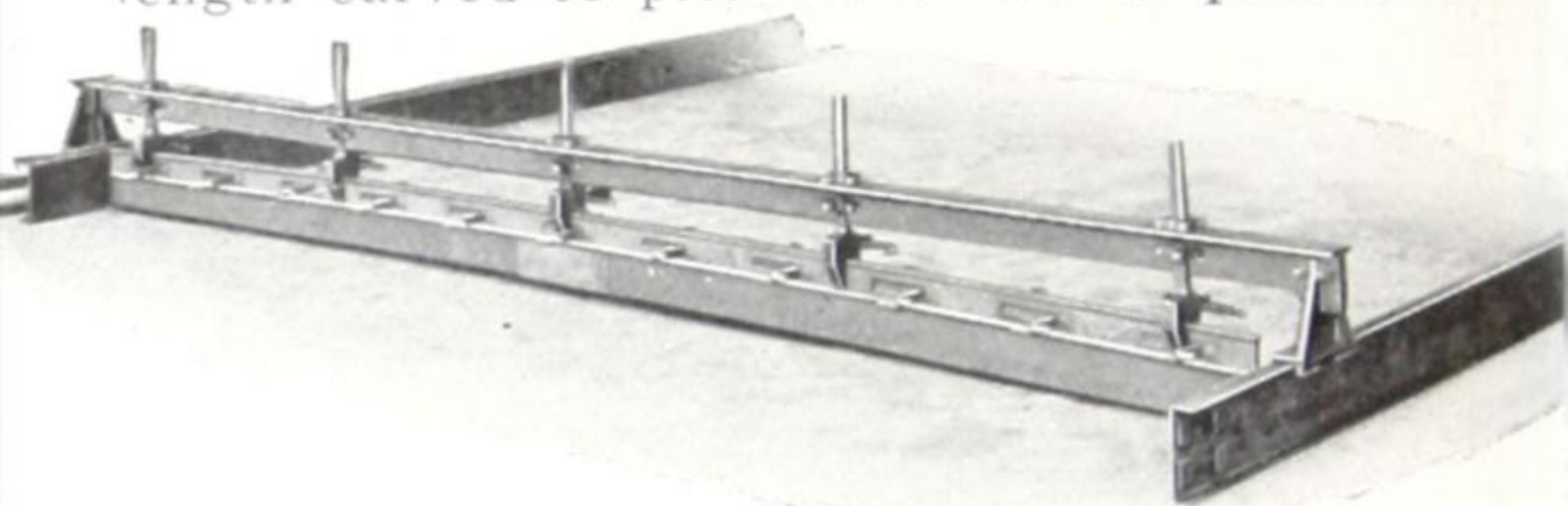
The expansion joints in concrete pavements must be protected with steel plates in order to prevent the concrete from breaking down at the joint. **Truscon Road Expansion Plates** are of the correct grade of steel and design to provide the proper protection. The beveled edges of the plates eliminate the sharp corners of the concrete back of the joint and prevent the concrete chipping off at this point. Plates are rolled from dead soft, open hearth steel of proper quality to wear down with the pavement, yet of proper tenacity to withstand shocks and blows. The plates are of suffi-



Cross section of protected joint.

ent depth and weight to secure a firm, solid anchorage in the concrete slab. The split end prongs insure positive anchorage in the concrete. The improved installing device, described below, assures correct placing of the plates.

Truscon Road Expansion Plates are $2\frac{1}{2}$ " deep and are furnished in any reasonable length curved to pitch or crown of pavement.



Installing Device for Truscon Road Expansion Plates

Our new, improved device for installing **Truscon Road Expansion Plates** provides a space between the supporting "T" Bar and the Road Expansion Plates so that the pavement can be finished evenly over the top of the plates. Clamps supported from the "T" Bar are adjustable in length so as to provide an absolutely accurate crown. The steel wedge in these clamps holds the plates tightly together. The "T" Bar is supported from the side forms by means of steel stools in which are adjusting bolts for raising or lowering the entire joint. The stool can be moved to other locations so that the same installing device can be used for various widths of roads as well as for any desired crown. The use of the improved installing device assures absolute accuracy of placing **Truscon Road Expansion Plates** so that the joint is even and flush with the pavement.

Trussed Concrete Steel Company of Canada, Limited



Concrete Pavement, Main Street Ojibway, Ontario

Owen Brainard, Consulting Engineer. Owen McKay,
Resident Engineer. John J. Dewhurst, Contractor.

Truscon Road Expansion Plates used to protect the joints





Truscon Curb Bars

Substantial Protection for Concrete Curbs

TRUSCON CURB BARS

Truscon Curb Bars provide a substantial protection and reinforcement for concrete curbs. They are manufactured from special rolled steel sections under powerful machinery. The plate and anchorage are formed from the same section of steel insuring uniform distribution of shocks throughout the concrete and preventing the loosening of the plate. The anchorage is positive and is entirely independent of adhesion of the concrete. Owing to the open spaces in the anchorage, there is no separating or splitting of the concrete at the corners. Owing to their rigidity and convenient size, Truscon Curb Bars are easy to handle and install. Concrete curbs protected with Truscon Curb Bars make the best and most economical curbing for either business or residential streets.

Truscon Curb Bars are manufactured from the highest grade of open hearth steel and are heavily galvanized after forming.

They are furnished in either straight or curved bars.

Standard lengths, 6, 8, 10 and 12 feet.

TRUSCON EDGE PROTECTORS

Truscon Edge Protectors follow the same general principles of design and manufacture as Truscon Curb Bars differing only in that they provide 1" protection edge instead of 1 5/8". The smaller protection is entirely ample for many conditions such as in the exposed corners of walls, pilasters, columns, platforms, sidewalks, etc.

The Truscon Edge Protector can also be used, if preferred, for concrete curbs just as the Truscon Curb Bar can be used in connection with columns and other interior work.

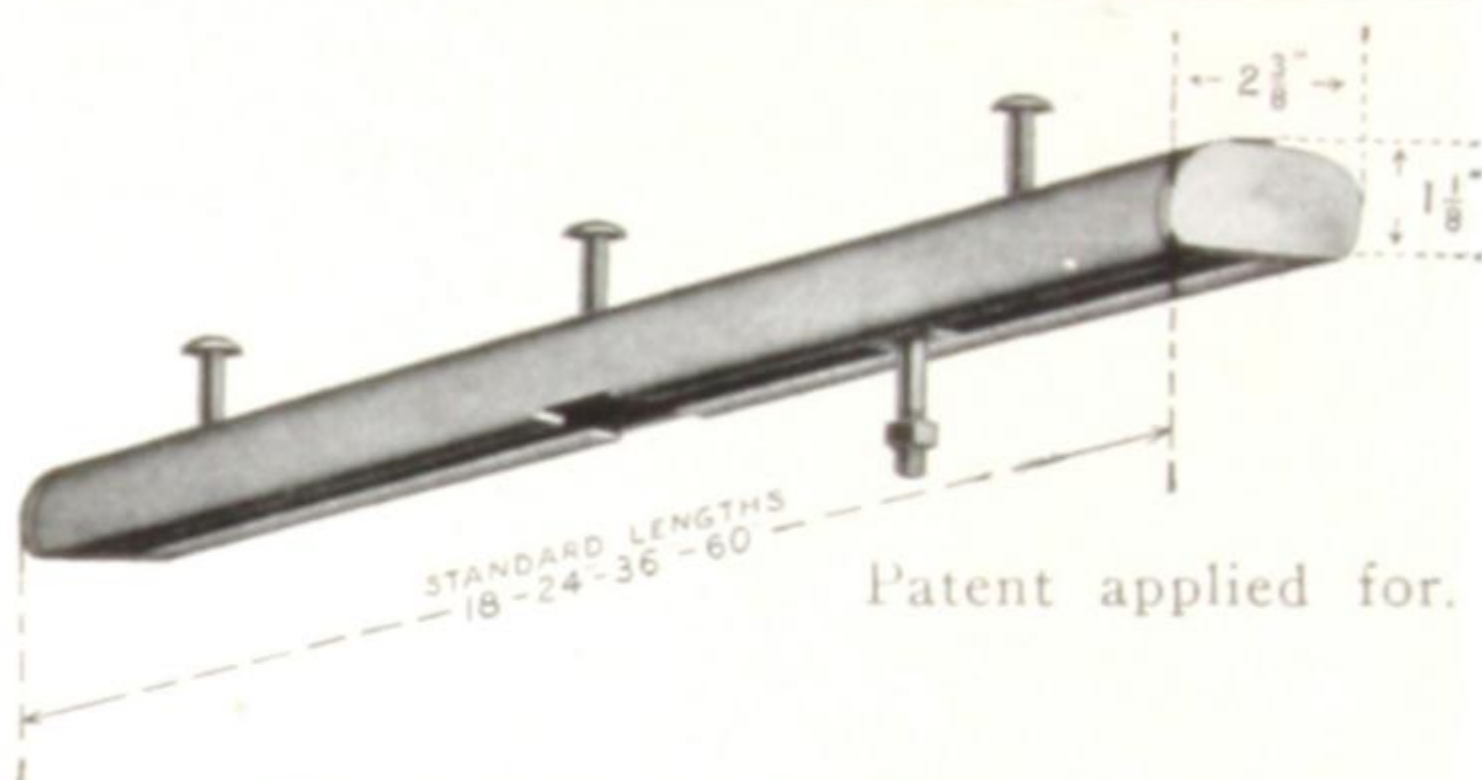
Truscon Edge Protectors are furnished heavily galvanized after forming.

Standard lengths 6, 8, 10 and 12 feet.

ELASTIC FILLER

Our Elastic Filler is used for expansion joints in concrete, brick, granite block and wood block pavements. For concrete pavements the Filler is clamped between the steel Expansion Plates before installation; while in brick or block pavements it is placed along the curb on each side and across the pavement at proper intervals. It eliminates the unsatisfactory and expensive poured joint. Our **Elastic Filler** is manufactured from selected bitumens of the highest purity so as to insure maximum elasticity and ductility under extremes of temperature.

Standard thicknesses: 1/4 in., 3/8 in., 1/2 in., 3/4 in., 1 in. Standard widths: 3 in., 4 in., 5 in., 6 in., 7 in., 8 in. Standard length, 5 ft. Other lengths can also be furnished if required.



TRUSCON PRESSED STEEL SLOTTED INSERTS

Truscon Slotted Inserts are used in concrete slabs, beams or columns for attaching Shaft Hangers, Fixtures, Sprinkler Systems, etc. They do away with expensive drilling into concrete after completion of the building.

Truscon Slotted Inserts are built into the concrete during the process of construction by merely fastening them to the wood centering. The concrete thoroughly imbeds the Insert and holds it rigidly in place. Only the narrow slot flush with the concrete is seen in the completed work. The bolt can be moved along this slot to any desired location allowing a wide variation in position.

Two special washers are furnished with each Truscon Pressed Steel Slotted Insert. These square washers fit into the slot, and prevent the head of the shaft hanger bolt from turning.

Standard lengths: 18 in., 24 in., 36 in., and 60 in.

A continuous Insert of any desired length can be obtained by removing the end caps and butting the inserts end to end.

Truscon Adjustable Inserts



Are made of pressed steel, and have the same simple method of application to concrete and adjustment for bolts as the slotted inserts, but without their wide range of adjustability. Carried in stock for $\frac{3}{4}$ " bolts. Can be made to order for $\frac{1}{2}$ " and $\frac{5}{8}$ " bolts.

Truscon Socket Inserts



Truscon Socket Inserts are used in concrete slabs, beams and columns for attaching shafts, hangers, sprinkler systems, etc., and are incorporated into the concrete while under construction by securely nailing them to the wood forms, doing away with extensive drilling into the concrete after the building is complete.

They are made of malleable iron in three sizes, properly cored and tapped to receive $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ " bolts.

TRUSCON STEEL SASH

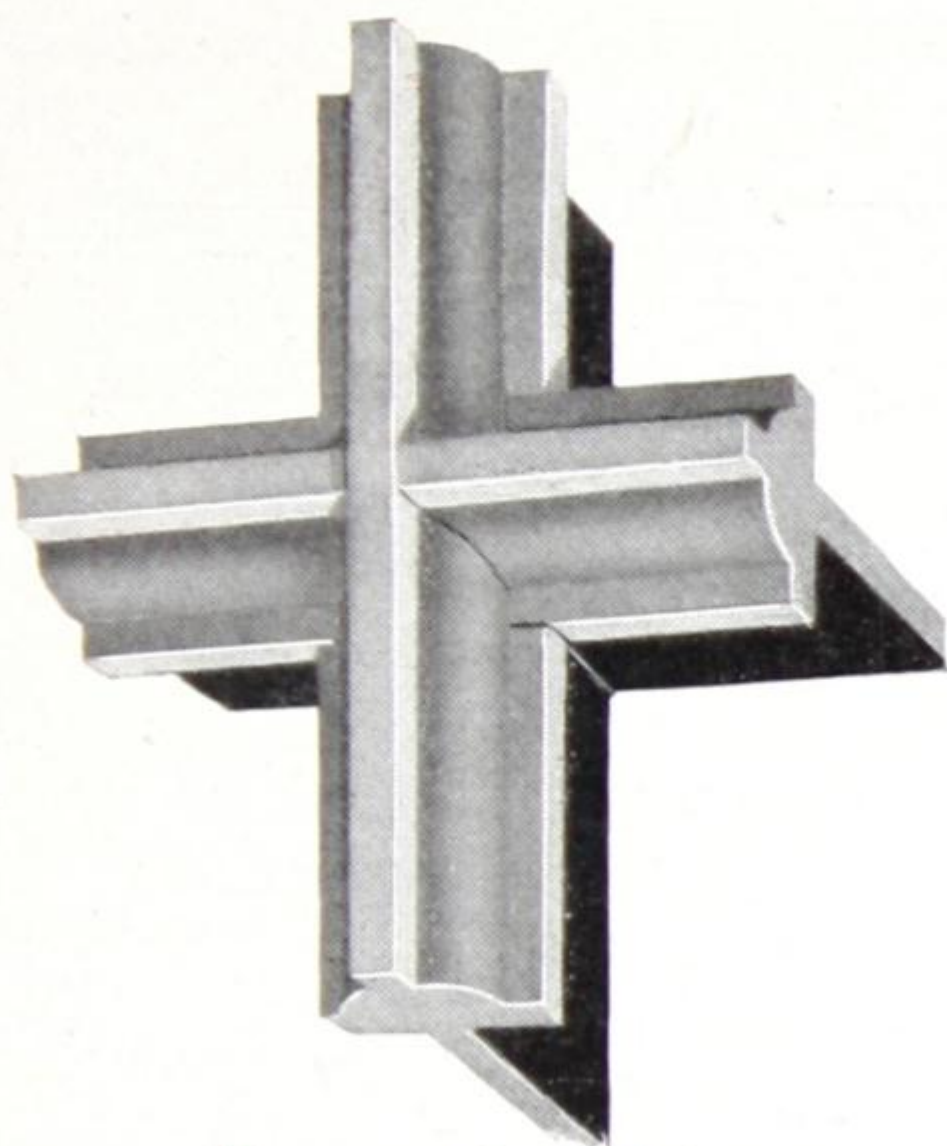
The average building must have the maximum amount of daylight. This cannot be had by using wood sash, with wide connecting members that block the light to a great extent. As a contrast, the long, thin, symmetrical members of steel sash give practically an all glass opening.

Truscon Steel Sash is provided with ventilators at desired points which allow all the ventilation required for any style of building. For instance, our standard side wall sash with large ventilators near the bottom of the sash in connection with center pivoted or top hung continuous sash in the monitor or saw tooth roof, is the most effective ventilation possible for foundries, forge shops, machine shops and other types of one-story buildings. This is but one idea; there are suitable layouts for every condition presented.

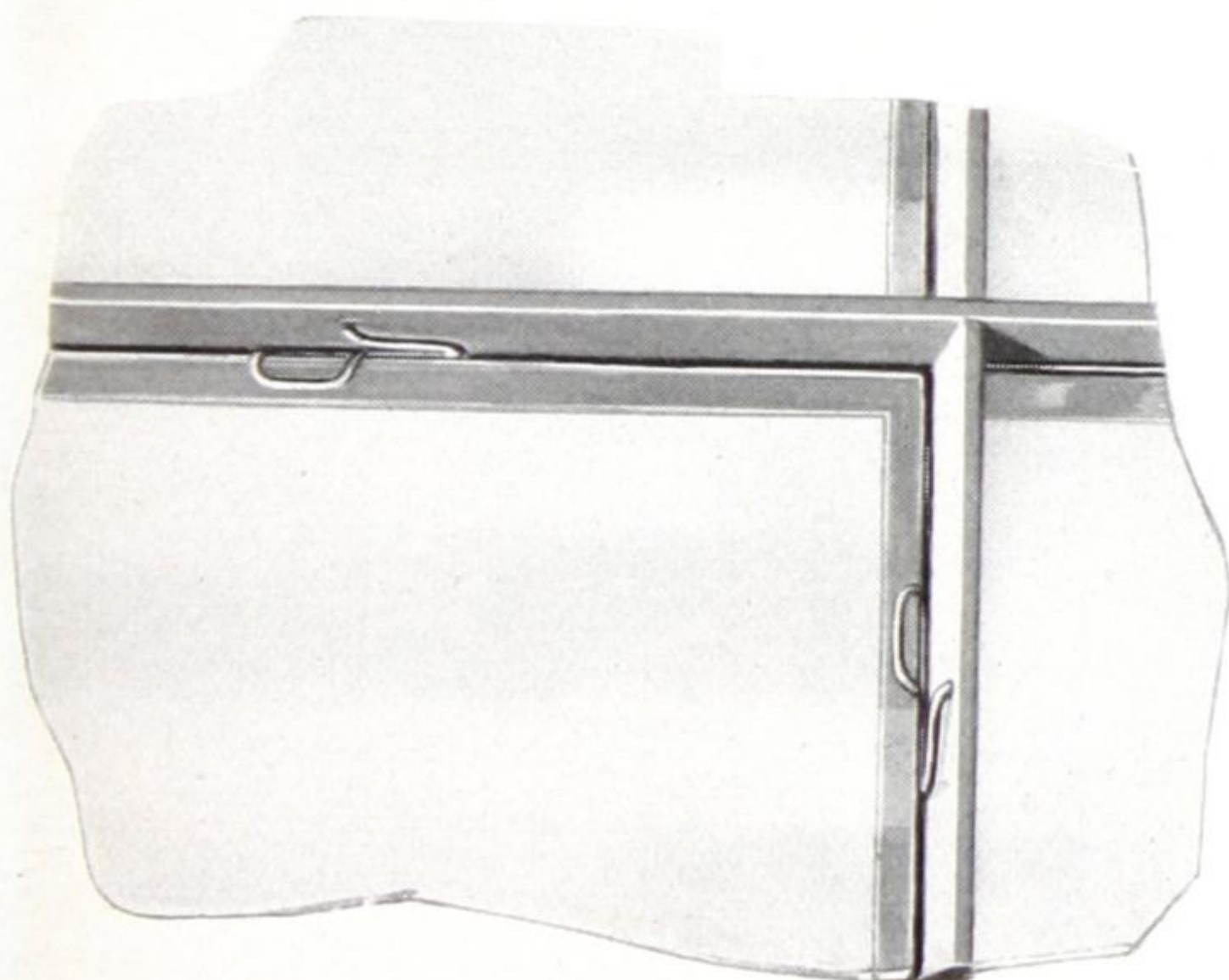
All joints of muntin bars are perfectly fitted and closed tightly after assembly, the joints at the jambs being riveted with pneumatic hammers. Extra large riveting area gives extraordinary strength and rigidity. Wind pressure or suction caused by passing air currents have no effect upon them. The ventilator frames are extra strong and have double contact weathering which provides absolute watertightness.

The service of our sash specialists is at your disposal. We will co-operate fully with you in giving complete estimates, designs, details and expert advice. Our representatives are conveniently located throughout Canada and give direct personal service.

Trussed Concrete Steel Company
of Canada, Limited



Truscon Sash Joint



Truscon Spring Glazing Clip

Truscon Building Products

Sections, Mullions, etc. of Truscon Steel Sash



SECTION NO. 1



SECTIONS NOS. 2 & 3



SECTION NO. 4



SECTION NO. 6



SECTION NO. 8



SECTION NO. 5



SECTION NO. 7



BEVEL-EDGED MULLION
Furnished in widths of 2", 2½" and 3"



"A" MULLION

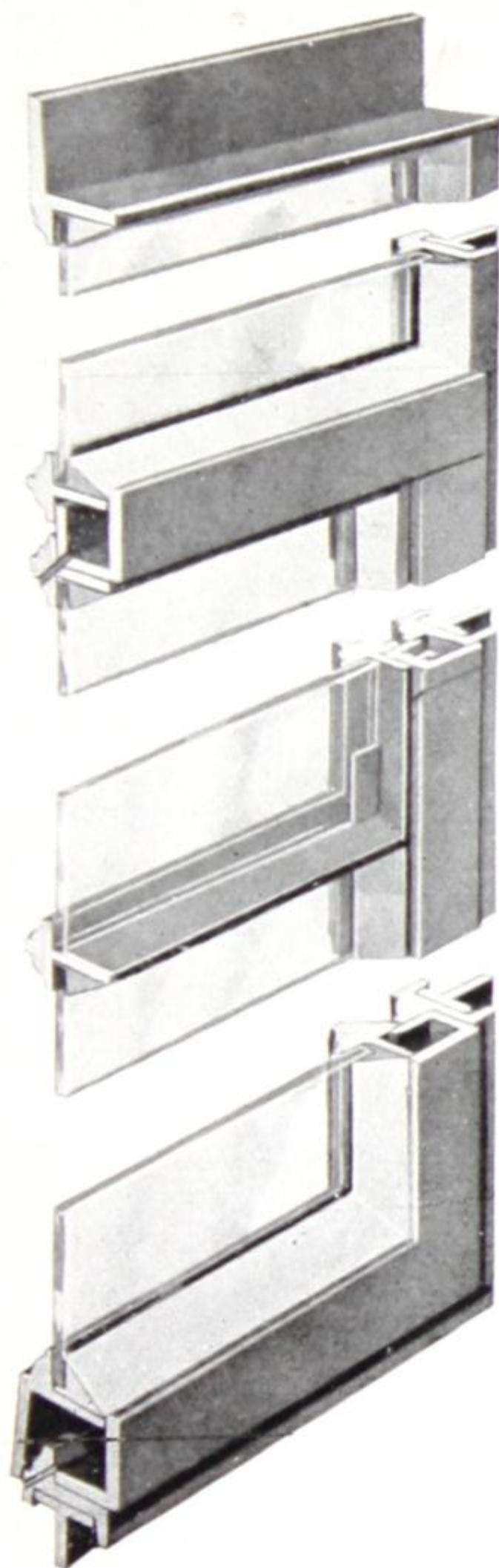


"B" MULLION



VENTILATOR PIVOT

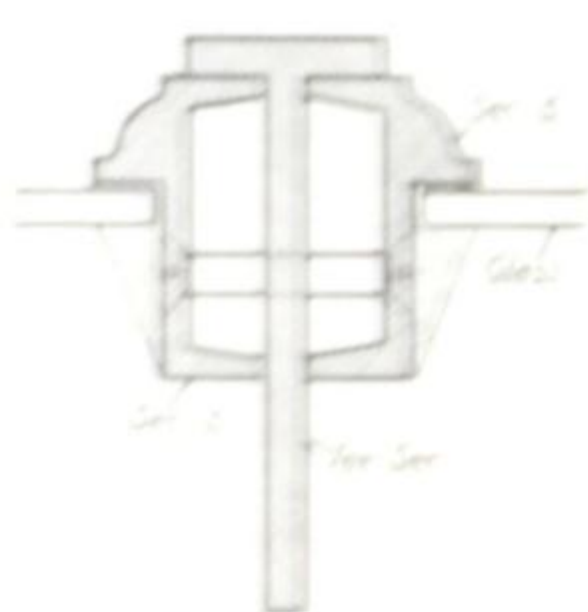
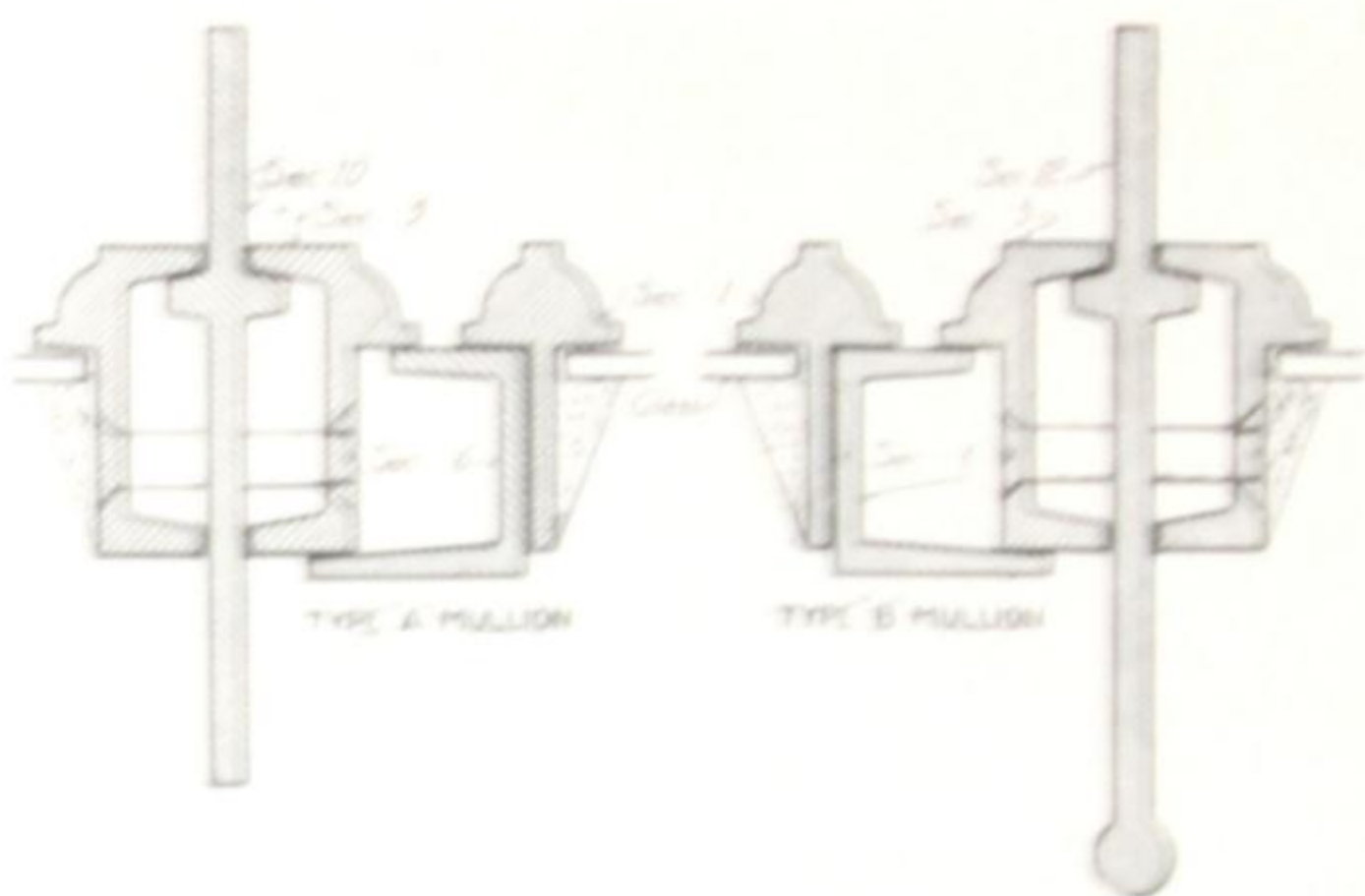
**Trussed Concrete Steel Company
of Canada, Limited**



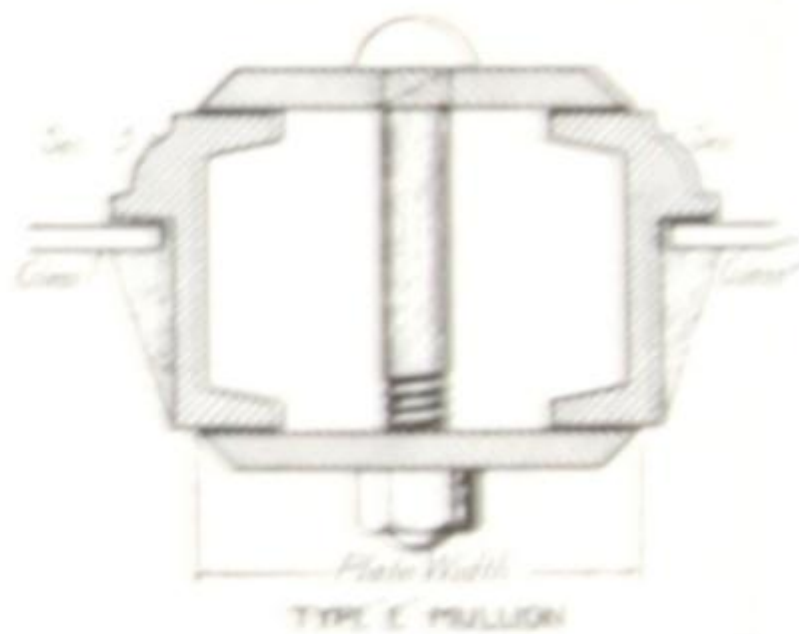
Typical sectional perspective
through Truscon Steel Sash.

Horizontally Pivoted Truscon Steel Sash

Typical Mullion Details for Truscon Steel Sash



T Mullion



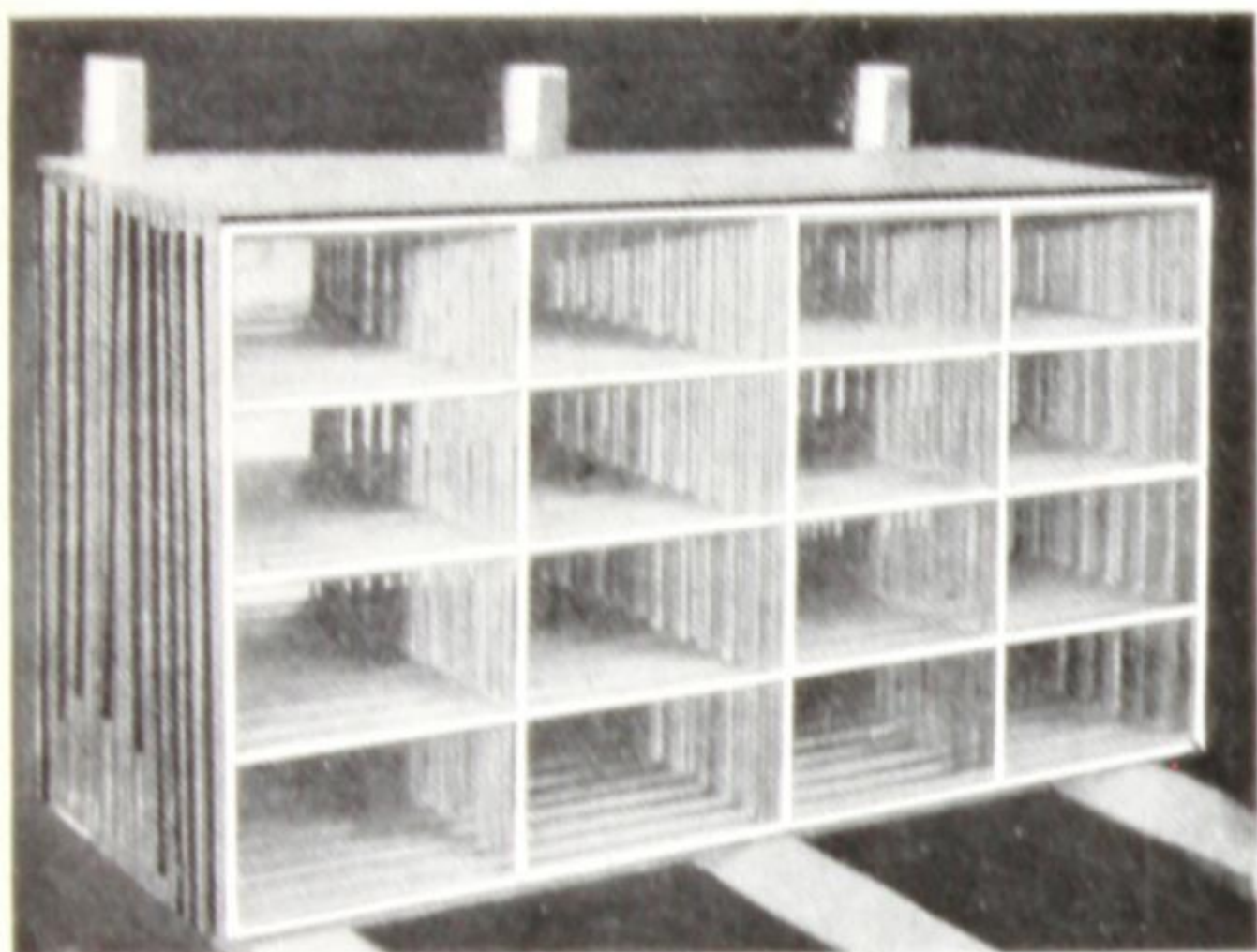
TYPE E MULLION



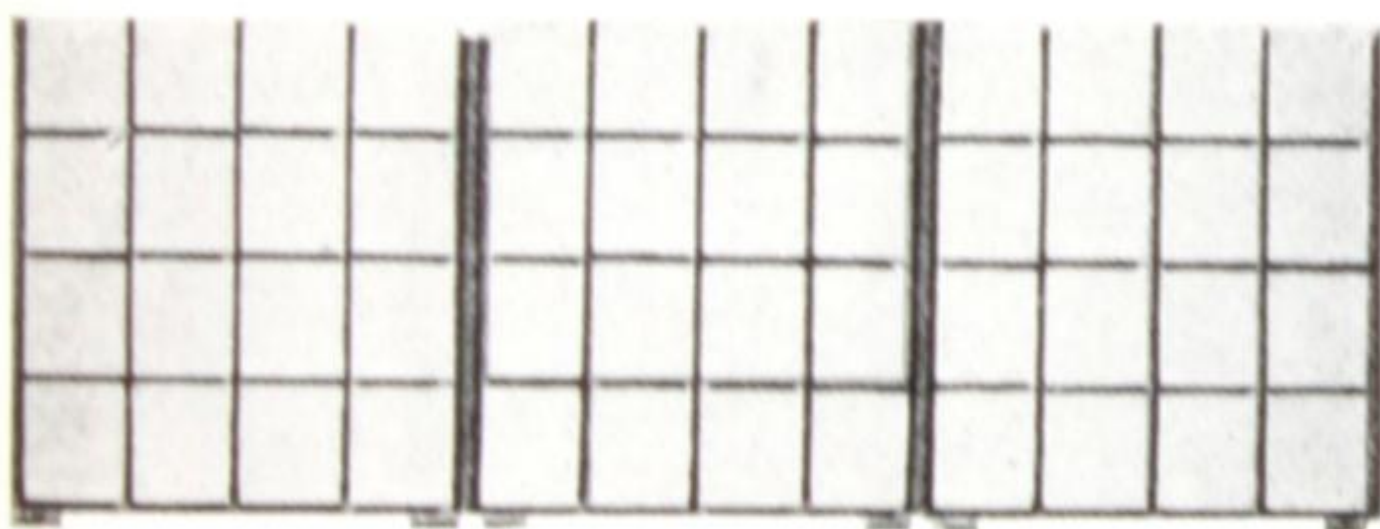
TYPE D MULLION

Trussed Concrete Steel Company of Canada, Limited

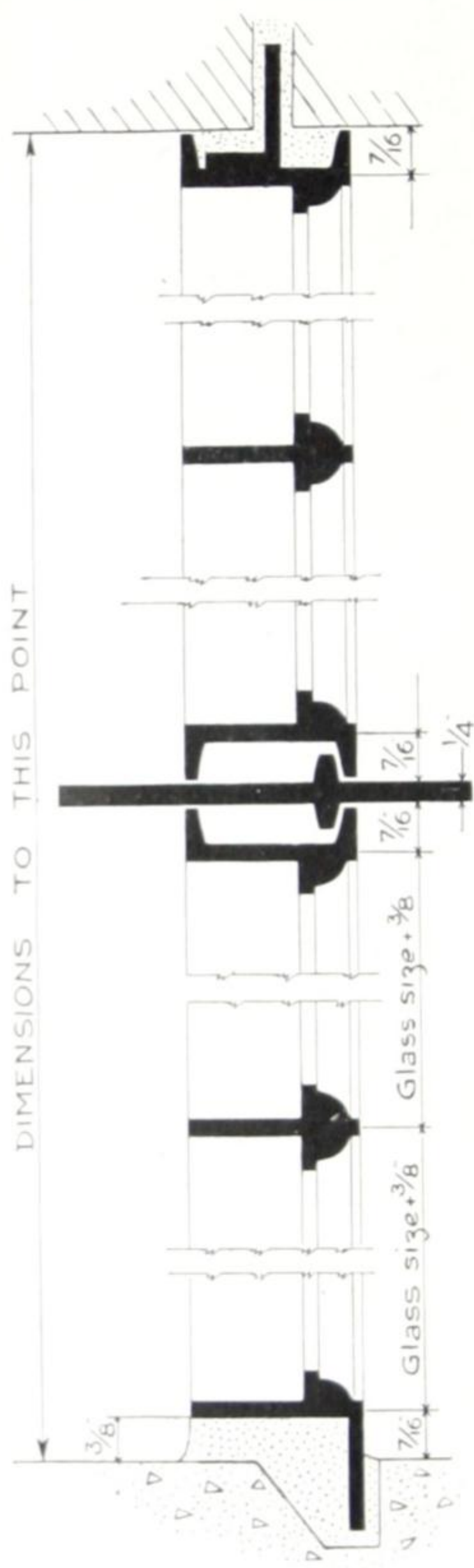
Instructions for Handling Truscon Steel Sash



When the sash arrive at the building they should be stacked on edge as shown in illustration. Use three 2x4 stringers with braces on one end. Lay sash horizontally, never pile one upon the other.



In erecting, the sash must be blocked in position as shown above. Care must be exercised in placing the sash plumb in a true vertical plane and to have the horizontal muntins of adjoining units in the same horizontal line.



WIDTH OF OPENING		GLASS SIZE															
		10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'			
	UNITS WIDE																
1	1	0-11¼	1-0½	1-1¼	1-2¼	1-3¼	1-4¼	1-5¼	1-6¼	1-7¼	1-8¼	1-9¼	1-10¼	1-11¼			
2	1	1-0⅝	1-11⅝	2-1⅞	2-3⅞	2-5⅝	2-7⅞	2-9⅞	2-11⅝	3-1⅞	3-3⅞	3-5⅞	3-7⅞	3-9⅞			
3	1	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8			
4	1	3-6⅞	3-10⅞	4-2⅞	4-6⅞	4-10⅞	5-2⅞	5-6⅞	5-10⅞	6-2⅞	6-6⅞	6-10⅞	7-2⅞	7-6⅞			
5	2	3-7½	3-11½	4-3½	4-7½	4-11½	5-3½	5-7½	5-11½	6-3½	6-7½	6-11½	7-3½	7-7½			
6	1	4-4¾	4-9¾	5-2¾	5-7¾	6-0¾	6-5¾	6-10¾	7-3¾	7-8¾	8-1¾	8-6¾	8-11¾	9-4¾			
7	1	5-3⅞	5-9⅞	6-3⅞	6-9⅞	7-3⅞	7-9⅞	8-3⅞	8-9⅞	9-3⅞	9-9⅞	10-3⅞	10-9⅞	11-3⅞			
8	2	5-4¼	5-10¼	6-4¼	6-10¼	7-4¼	7-10¼	8-4¼	8-10¼	9-4¼	9-10¼	10-4¼	10-10¼	11-4¼			
9	1	6-1½	6-8½	7-3½	7-10½	8-5½	9-0½	9-7½	10-2½	10-9½	11-4½	11-11½	12-6½				
10	1	6-11⅞	7-7⅞	8-3⅞	8-11⅞	9-7⅞	10-3⅞	10-11⅞	11-7⅞	12-3⅞							
11	2	7-1	7-9	8-5	9-1	9-9	10-5	11-1	11-9	12-5	13-1	13-9	14-5	15-1			
12	3	7-2⅞	7-10⅞	8-6⅞	9-2⅞	9-10⅞	10-6⅞	11-2⅞	11-10⅞	12-6⅞	13-2⅞	13-10⅞	14-6⅞	15-2⅞			
13	1	7-10¼	8-7¼	9-4¼	10-1¼	10-10¼	11-7¼	12-4¼									
14	2	7-11⅞	8-8⅞	9-5⅞	10-2⅞	10-11⅞	11-8⅞	12-5⅞	13-2⅞	13-11⅞	14-8⅞						

Trussed Concrete Steel Company
of Canada, Limited

USE THIS TABLE WHEN FIGURING
OVERALL DIMENSIONS OF TRUSCON STEEL SASH

[illegible]

The table shows overall dimensions of combined units with "A," or "B" mullions. The column "Lights wide" indicates the total number of lights across the opening, while the column "Units wide" indicates the number of units across the opening. For instance, if we have an opening shown 16 lights wide, in 4 units, using "A," or "B" mullions with glass 10" wide specified, we find in the column headed 10", opposite 16 lights—4 units wide, the overall dimension 14'-2 1/2". There may be any combination of 4 units, totaling 16 panes such as 4 units of 4 lights wide, or 2 units of 8 lights and 2 units of 3 lights, etc. This also applies for height dimensions. Single units should not be over 13 ft. high. Units over 8'-0" on one dimension should not be over 6'-0" on the other. Whenever possible, center, top or bottom hung ventilators should not exceed 5'-0" high and 4'-6" wide, and side hung ventilators should not exceed 6'-6" high and 2'-5" wide.



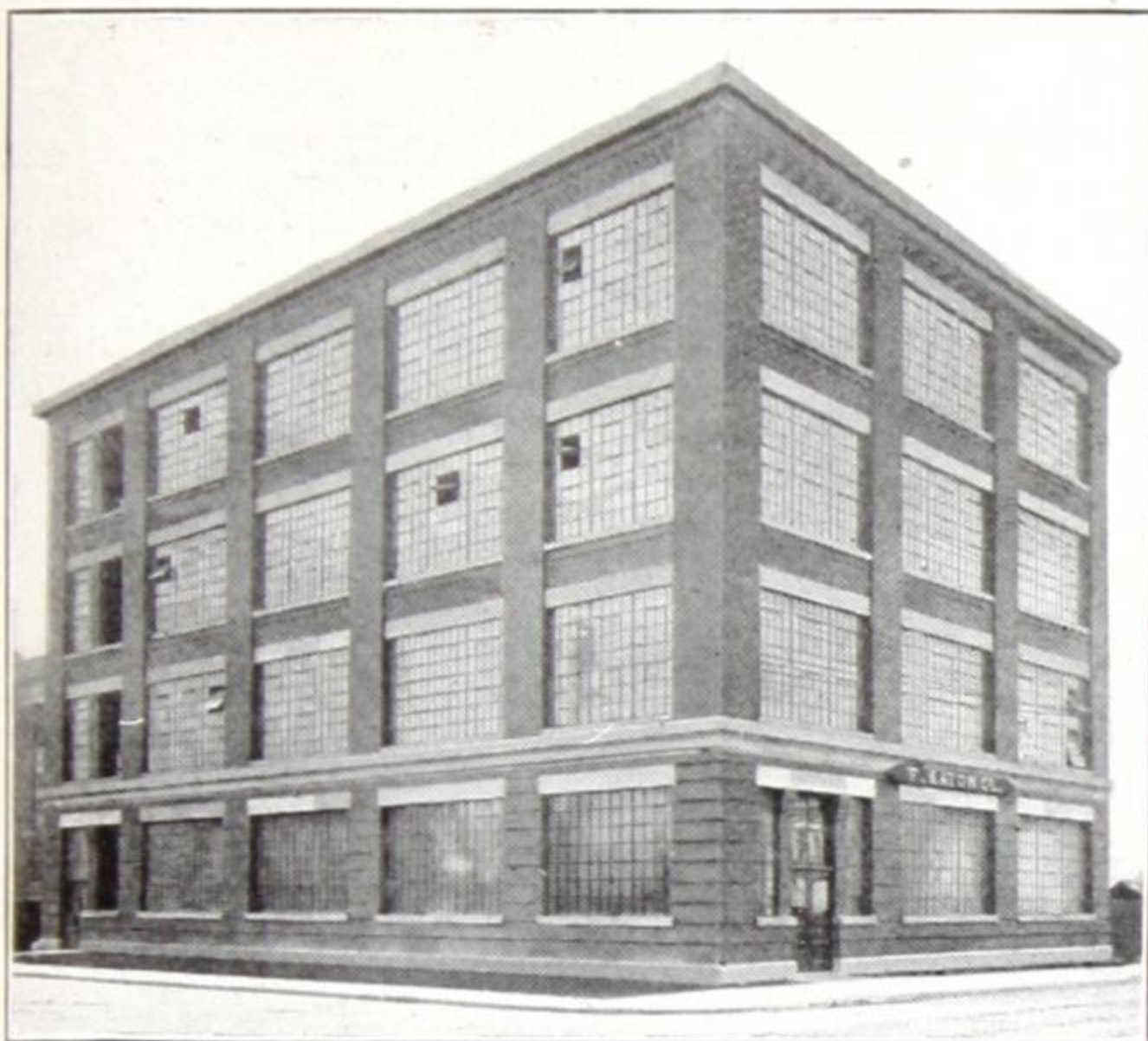
Truscon continuous sash used in monitor of Embroidery Factory. The T. Eaton Co., Limited, Toronto.

TRUSCON METAL SASH PUTTY

Truscon Metal Sash Putty is especially formulated for use on metal sash. It bonds thoroughly with both the metal and glass surfaces and dries and hardens in a comparatively short time. Ordinary putties are not satisfactory for metal sash, because their hardening depends very largely on the absorption of the oil into the wood of the sash. Truscon Metal Sash Putty hardens within itself, independent of absorption, and is particularly suited for metal sash. It is furnished in 100 lb. cans.

Trussed Concrete Steel Company of Canada, Limited

Typical Truscon Steel Sash Installations



Suburban Warehouse, The T. Eaton Co., Limited, Toronto
Wm. Steele & Sons, Architects



Ford Motor Company of Canada, Limited, Toronto
John Graham, Architect Wells & Gray, Contractors



Detroit News Building, Detroit
Albert Kahn, Architect; Ernest Wilby, Associate

TRUSCON STEEL CASEMENTS

Truscon Steel Casements meet the requirements of the most exacting specifications for casement windows used in the finest types of buildings such as Hospitals, Libraries, Public Buildings, Banks, Schools, Office Buildings, and large residences. The very best workmanship and materials are utilized in their construction. The neat and artistic design of these casements add materially to their architectural beauty.

All of the various types of casements can be furnished from the same suite of sections—side hung open in or out, top or bottom hung, horizontal or vertically pivoted, French folding open in or out or fixed lights.

Special rolled steel sections are used which have been carefully designed to suit modern conditions. They have clear well-defined out-

Trussed Concrete Steel Company of Canada, Limited

lines, with no superfluous ribs, and give maximum strength for the metal used. In composite windows with various types of opening casements or fixed lights, the glazing rebates sight and line perfectly. The corners of both fixed and opening frames are cut to a true mitre and welded solid by an improved electric process, afterwards being ground and cleaned to their true shape. This method of welding actually makes the corners stronger than the section, thus producing a more rigid frame than the old process of oxy-acetylene welding. All types of casements have double contacts on all sides, ensuring an excellent weather-tight proposition.

Top, bottom or side hung casements are fitted with extruded section bronze hinges with hard steel pins and screwed to frame from inside the steel sections so that when the casement is closed the hinges cannot be removed.

Vertical or horizontal centre pivoted casements are fitted with hard steel ball-ended studs working in special bronze bearings.

The hardware and fittings of Truscon Steel Casements are our own design and manufacture, massive and plain in appearance, and embody many unique and attractive features. The bronze hardware is of solid cast metal, polished or dull natural color finish.

Screens can be readily attached. Glazing can be done inside or outside with putty, metal or wooden glazing fillets.

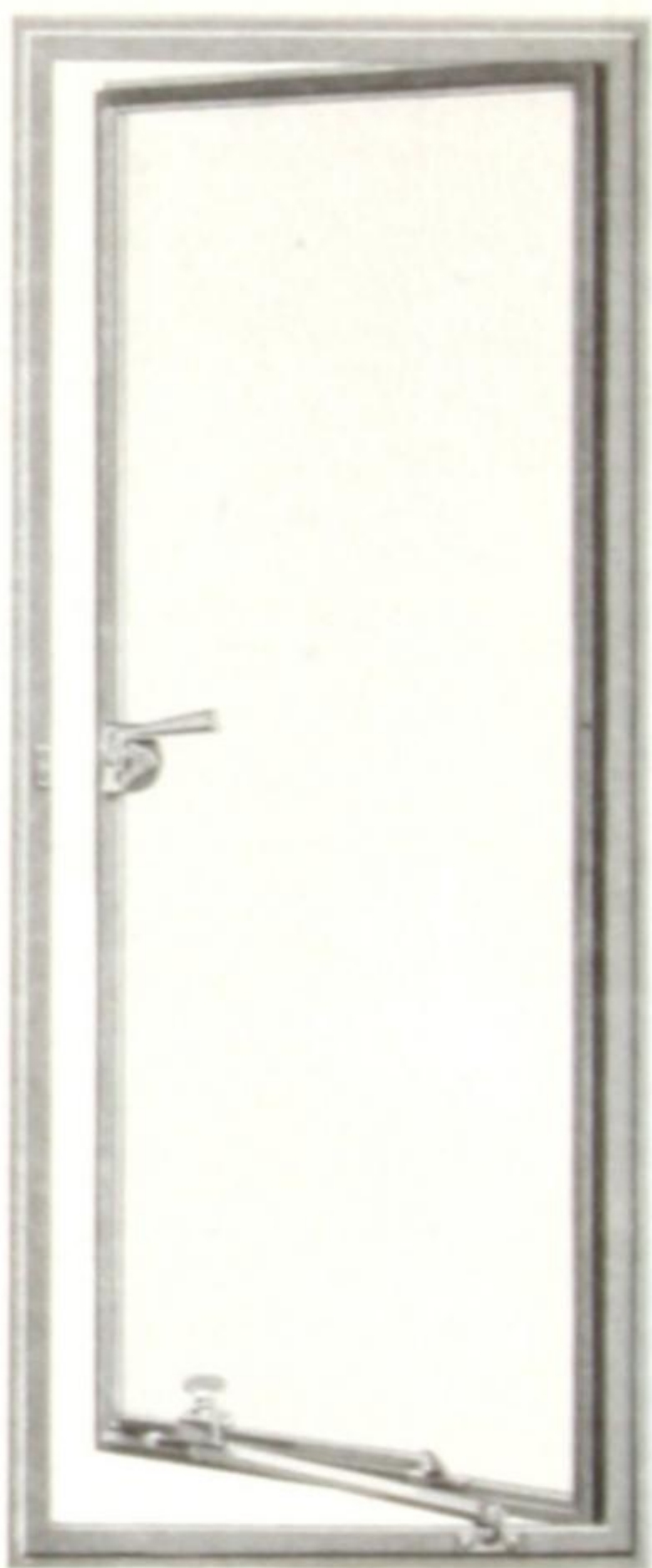
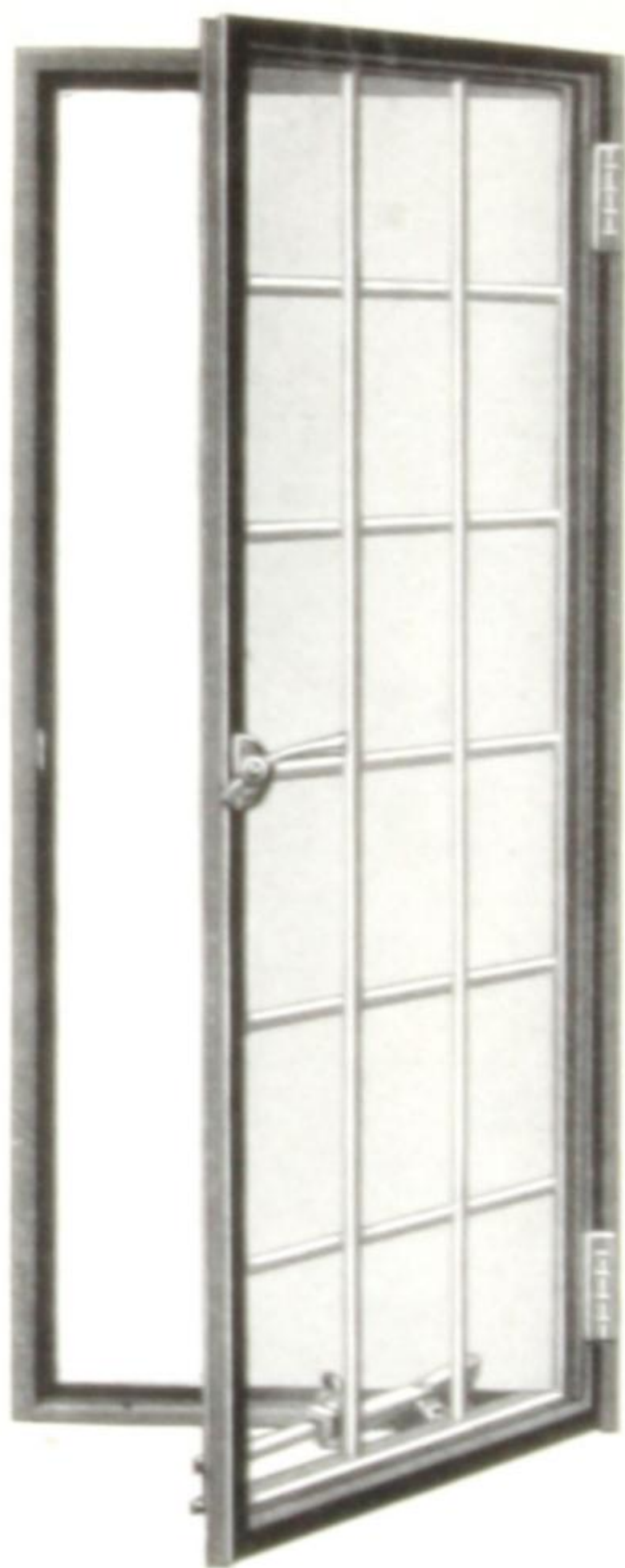
All casements are given two coats of specially prepared grey paint before leaving the shops. This gives a splendid surface for enamel or other high-class finish.

Our Casement Specialists will render every assistance in preparing details for casement windows, whether plain or elaborate design.

Large illustrated catalogue free on request.

Two Styles of Truscon Steel Casements

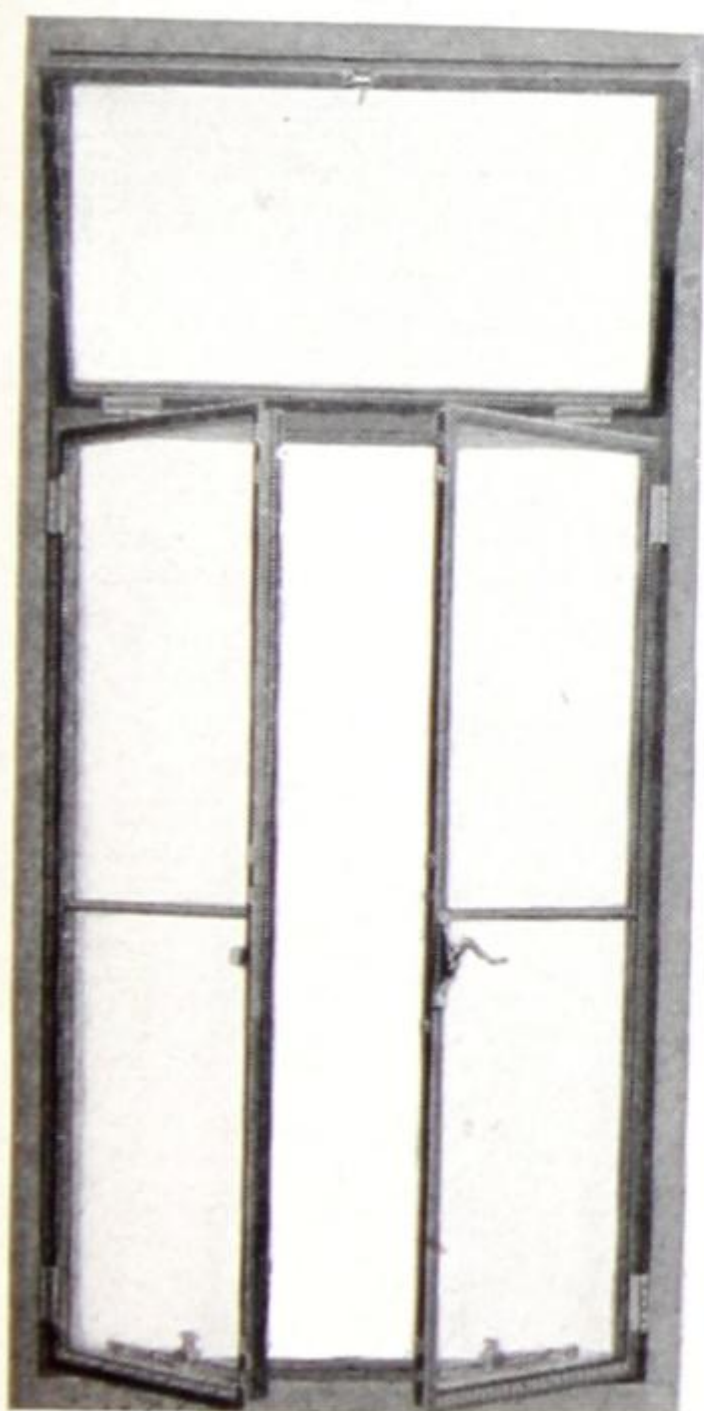
Open-in Casement with Lead
Glazing



Side hinged open-out Casement
fitted with No. 50 handle on plair
plate and non-projecting sliding
adjuster

Truscon Steel Casements

French folding open-
in Truscon Steel
Casement with bottom-
hung transom



Side-hinged open-in
Truscon Steel
Casement

CASEMENT SECTIONS

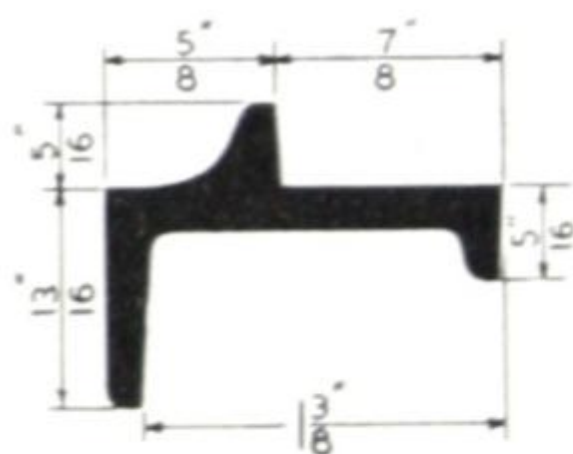
Medium



SECTION No. 61



SECTION No. 62

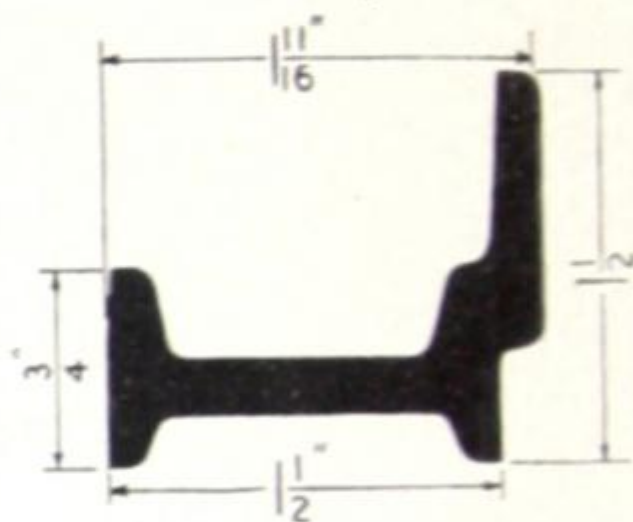


SECTION No. 63

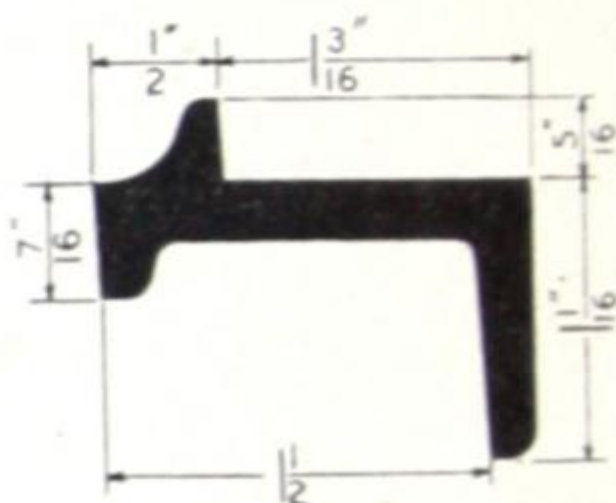


SECTION No. 64

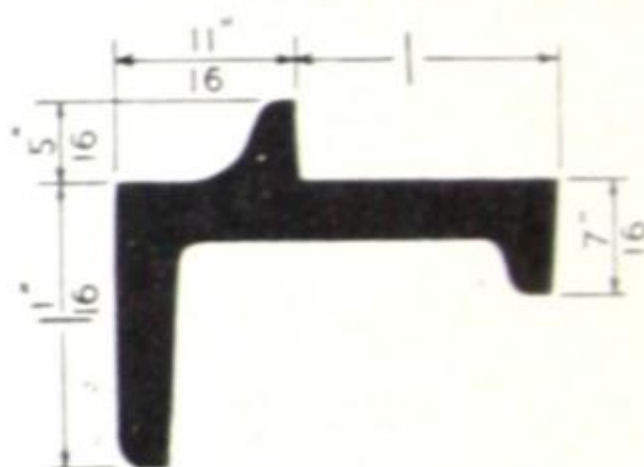
Heavy



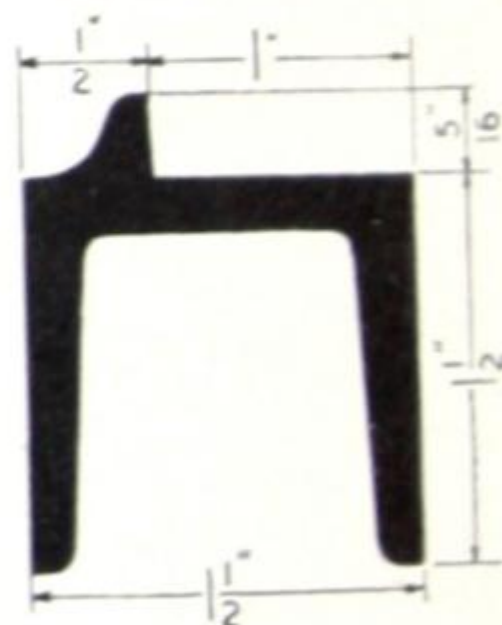
SECTION No. 71



SECTION No. 72



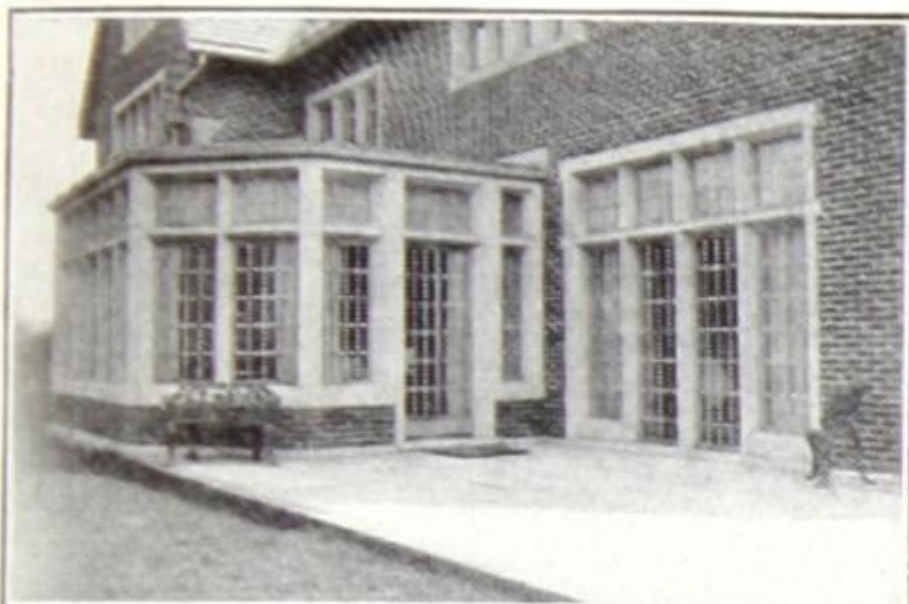
SECTION No. 73



SECTION No. 74

Trussed Concrete Steel Company of Canada, Limited

Truscon Steel Casements for Residences



Truscon Steel Casements are suited to all building requirements. Many of the largest and best homes and business buildings throughout Canada, the United States and foreign countries are equipped with Truscon Steel Casements.

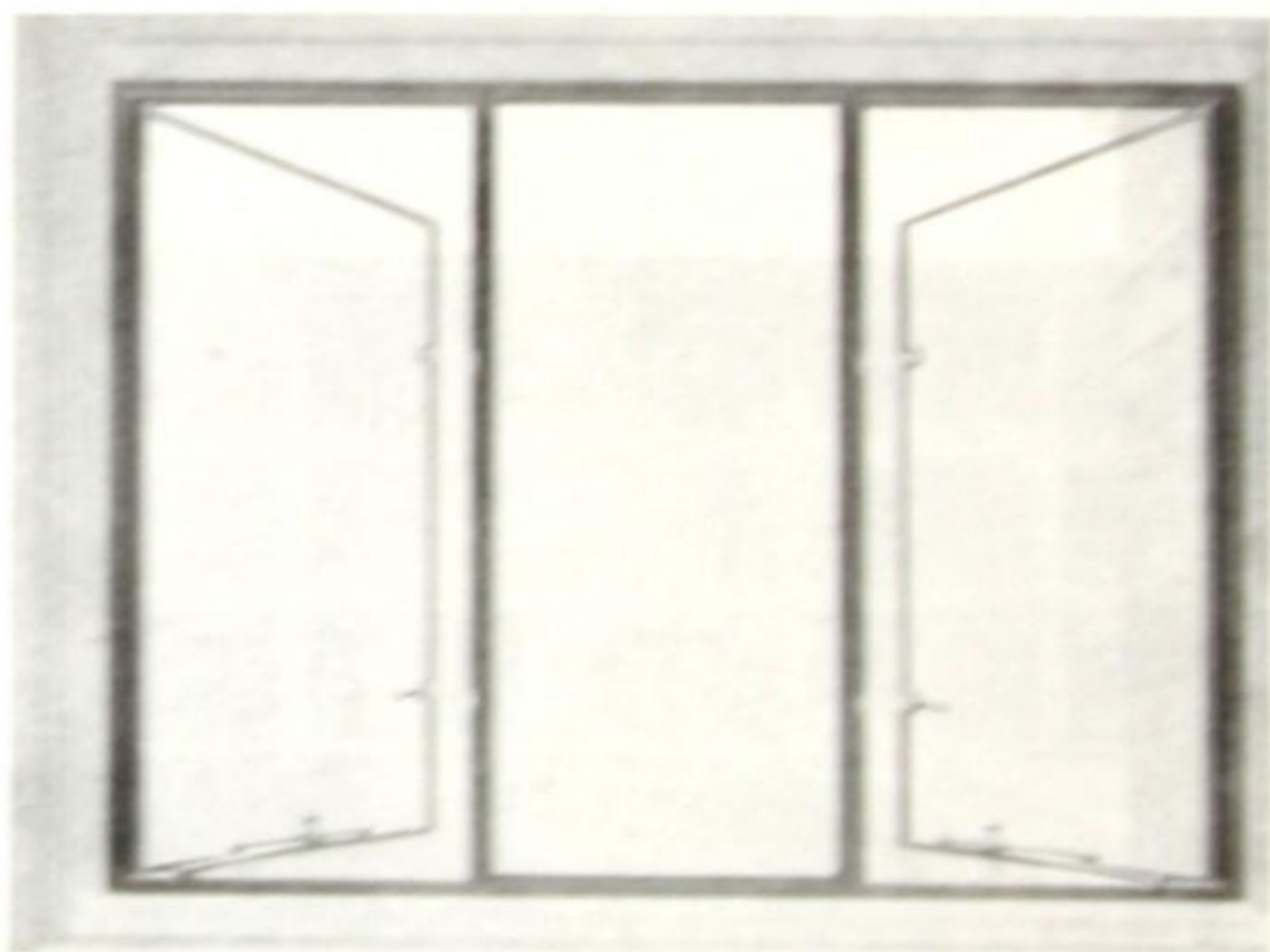


These four photographs show a typical residential installation, using metal glazing.

Truscon Steel Casements



Interior of Ford Bridge, Ford Motor Company, Detroit,
equipped with Truscon Steel Casements



Typical Truscon Steel Casement as used by the Ford Motor Co.

Trussed Concrete Steel Company
of Canada, Limited



Detroit Savings Bank, Exterior and Interior
Truscon Steel Casements used

Truscon Building Products

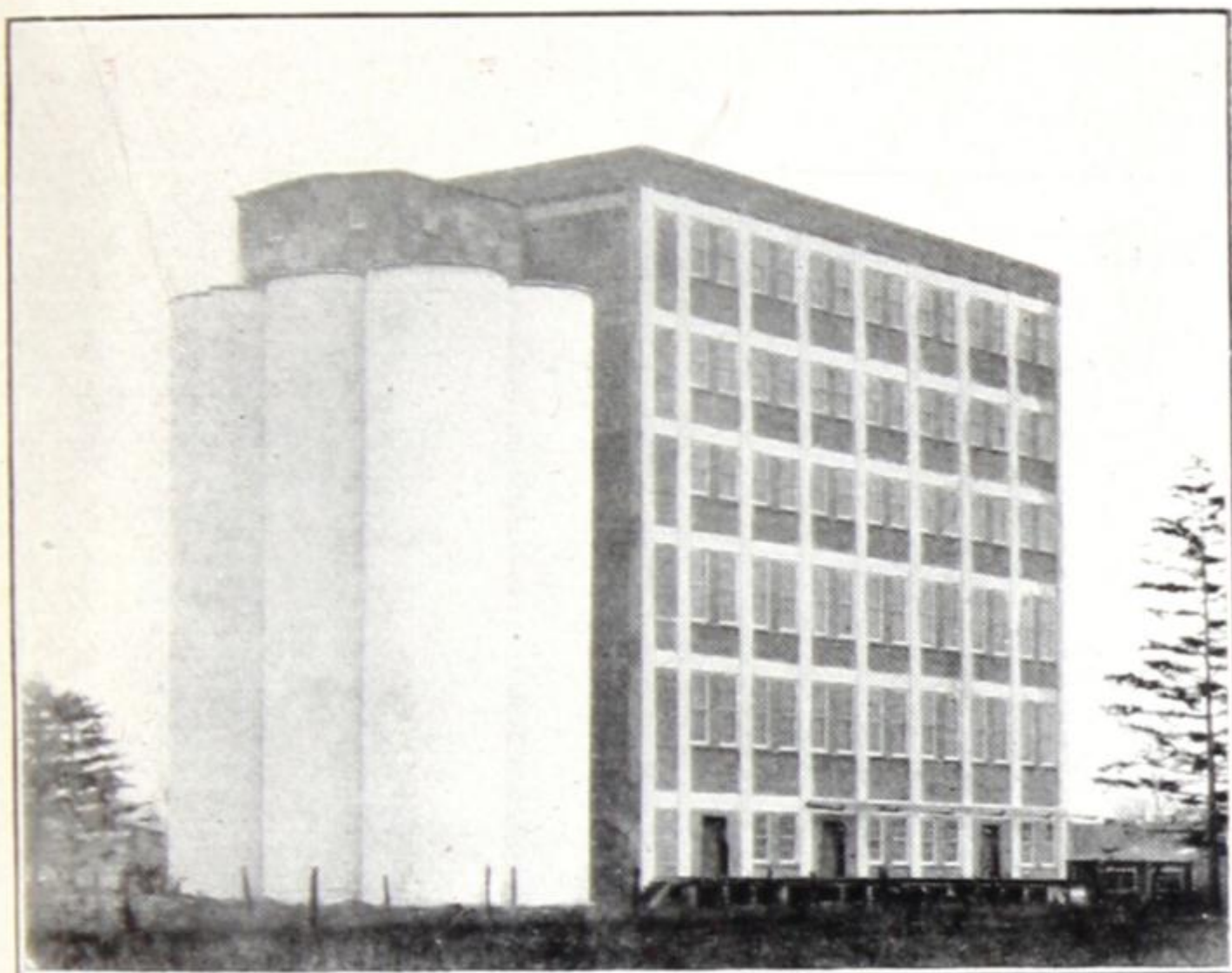
Truscon Steel Casement Installations

(Top)
Defiance Home
Saving and Loan
Association,
Defiance, Ohio.

(Bottom)
Office Ontario
Hydro-Electric
Commission,
Toronto



Trussed Concrete Steel Company of Canada, Limited



Hunt Bros. Mill, London, Ont.
Built Truscon System of Reinforced Concrete
Watt & Blackwell, Architects.
Archibald & Holmes, Limited, Contractors



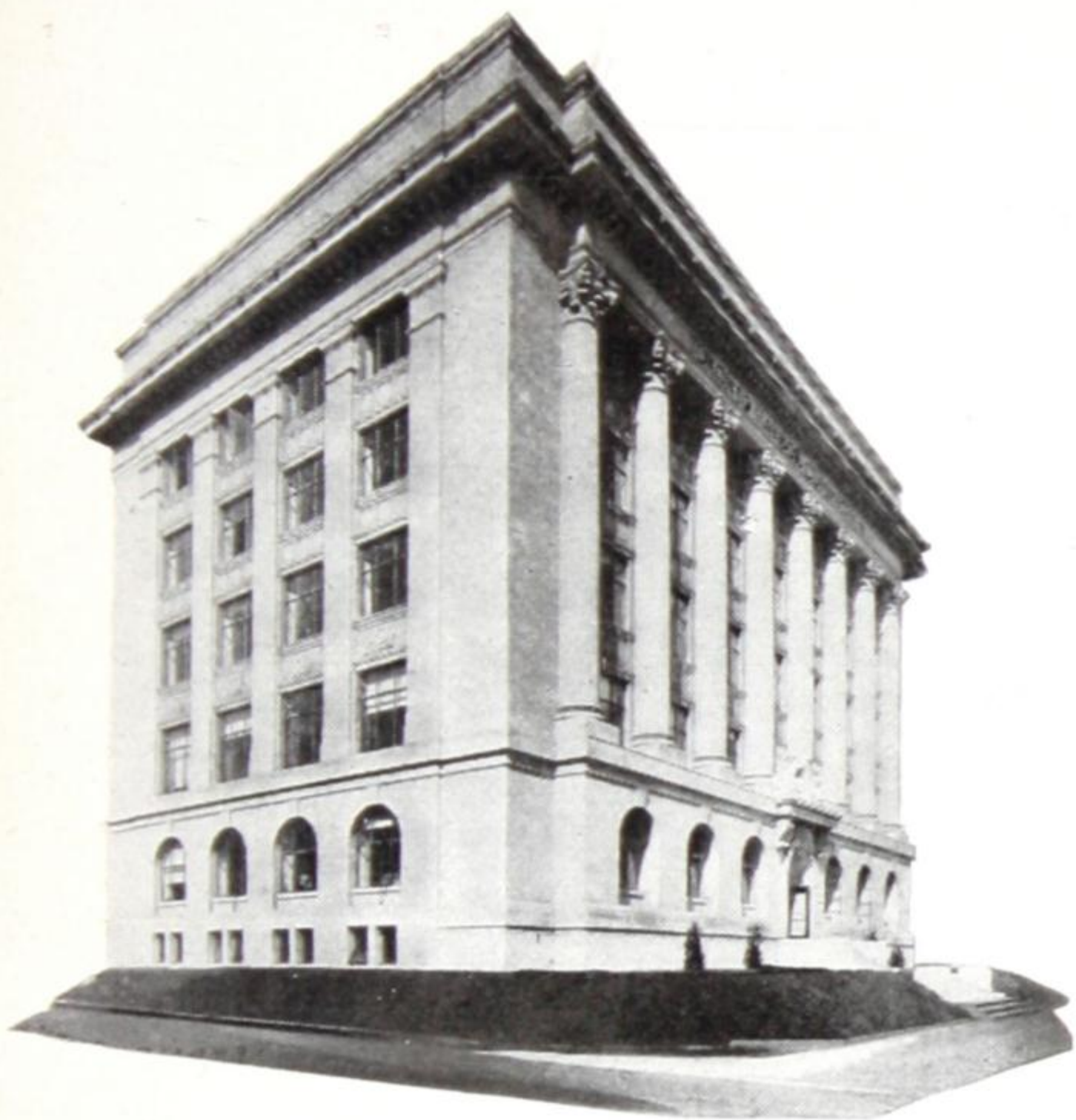
The Robert Simpson Co. Ltd., Regina
Truscon Steel Sash used throughout.

Truscon Building Products



Norlite Building, Ottawa
Richards & Abra, Architects, C. P. Meredith, Associate Architect
Doran & Devlin, Contractors
Truscon System of Reinforced Concrete

Trussed Concrete Steel Company of Canada, Limited



The Toronto Harbor Commission Office Building
Chapman & McGiffin, Architects
Harkness & Oxley, Engineers
Archibald & Holmes, Limited, Contractors

The Toronto Harbor Commission Office Building—built of Truscon Reinforced Concrete and equipped throughout with Truscon Steel Casements and Truscon Spot Grounds. The Government chose Truscon Building Products—through them they have gained durability, economy, beauty, and fireproofness. Truly, no GOOD building can be built without them.

TRUSCON CHEMICAL PRODUCTS

Waterproofings--Dampproofings--Technical Paints

TRUSCON WATERPROOFING PASTE

CONCENTRATED—Mixed with the gauging water to make concrete and mortar waterproof. Has a very general application in concrete work of all kinds, such as foundations, tunnels, reservoirs, tanks, floors and similar structures where absolute waterproofness is essential. Simple and practical in its use, scientifically correct in its composition, and absolutely positive in results.

TRUSCON STONETEX—For dampproofing, beautifying and protecting exterior stucco, concrete, brick and masonry surfaces of all kinds. A strictly liquid cement coating specially formulated to meet the exact physical and chemical requirements. Color card on request.

Covering capacity: 180 sq. ft. per gal., single coat.
120 sq. ft. per gal., double coat.
Shipping weight: 19 pounds per gallon.

TRUSCON POR-SEAL—A transparent liquid for damp-proofing exterior masonry walls without changing the physical appearance and texture of the coated surface. Seals the pores, rendering the porous surface positively repellant to moisture.

Covering capacity: 180 sq. ft. per gal., single coat.
120 sq. ft. per gal., double coat.
Shipping weight: 10 lbs. per gallon.

TRUSCON PLASTER BOND—A special dampproof coating applied to the interior of exposed brick and concrete walls. Provides a continuous dampproofing element in the wall. Plaster can be applied directly to the coated surface.

Covering capacity: About 90 sq. ft. per gal., depending on porosity of surface and temperature.
Shipping weight: 11 lbs. per gallon.

Trussed Concrete Steel Company
of Canada, Limited

TRUSCON FOUNDATION COAT—For dampproofing foundations and underground masonry under light pressures. Applied cold with a large brush or mop, and provides a continuous coating free from microscopic pores, indefinitely retaining its tenacious bond to the masonry.

Covering capacity: 90 sq. ft. per gal., single coat.
60 sq. ft. per gal., double coat.
Shipping weight: 11 lbs. per gallon.

TRUSCON STONE BACKING—A black dampproof coating for treating the unexposed sides of cut stone. Prevents staining and discoloration of stone, due to the absorption of moisture from the mortar.

Covering capacity: 150 sq. ft. per gal., single coat.
90 sq. ft. per gal., double coat.
Shipping weight: 11 lbs. per gallon.

TRUSCON FLOOR ENAMEL—Produces a tough, hard, elastic and reasonably durable finish on cement floors. Affords a perfect and attractive enamel finish that stops the dusting of the floor. Protects the floor from staining, due to the absorption of oils, greases and other foreign matter. Color card on request.

Covering capacity: 300 sq. ft. per gal., single coat.
180 sq. ft. per gal., double coat.
Shipping weight: 16 lbs. per gallon.

TRUSCON FLOOR PRIMER—To be used as a priming coat under **TRUSCON FLOOR ENAMEL** on **NEW WORK** or when coating any concrete floor laid directly on the ground. Penetrates into the surface and perfectly seals the pores, thereby insulating the **ENAMEL** from contact with any alkali brought into solution by moisture.

Covering capacity: 240 sq. ft. per gal., single coat.
Shipping weight: 13 lbs. per gallon.

TRUSCON AGATEX—Chemically transforms a soft, dusting cement floor to a hard, dense,

impenetrable surface without changing its color or appearance. Actually enters into chemical reaction with the constituents of the cement and forms entirely new compounds, hard, enduring and resistive to wear. Affords three indispensable factory requirements—dustproof, waterproof and sanitary floors.

Covering capacity: 120 sq. ft. per gal.
Shipping weight: 10 lbs. per gallon.

TRUSCON ASEPTICOTE—A flat, washable, durable, sanitary, decorative finish for interior walls and ceilings of plaster, cement, brick, wood, burlap and metal. Furnished in a number of colors, providing the most attractive and permanent interior decorative effects. Color card on request.

Covering capacity: 480 sq. ft. per gal., single coat.
300 sq. ft. per gal., double coat.
Shipping weight: 19 lbs. per gallon.

TRUSCON WALL SIZE—For uniforming the suction of porous surfaces and providing a foundation coat over which finishes can be most evenly and uniformly applied.

Covering capacity: 360 sq. ft. per gal., single coat.
210 sq. ft. per gal., double coat.
Shipping weight: 11 lbs. per gallon.

TRUSCON ALKABAR—An especially formulated product for use as a priming or sizing coat on interior plastered walls to protect the finishing coats applied over it from injury due to moisture or alkali in the walls.

Covering capacity: 300 sq. ft. per gal., single coat.
180 sq. ft. per gal., double coat.
Shipping weight: 14 lbs. per gallon.

TRUSCON SNO-WITE—This product is an enamel coating of the very highest quality for finishing interior surfaces of wood, metal and plaster. It produces an enamel finish with a brilliancy of tone, softness, whiteness and lustre that cannot be excelled.

Trussed Concrete Steel Company
of Canada, Limited

Gives a finish free from brush marks or grain, resembling a porcelain surface.

Covering capacity: 600 sq. ft. per gal., single coat.
360 sq. ft. per gal., double coat.

Shipping weight: 15 lbs. per gallon.

TRUSCON MASTER PAINTERS' WHITE

ENAMEL—An economical, durable, sanitary enamel made especially for master painters' use on general contract work. Possesses many of the qualities of enamels selling at a much higher price. The low price allows it to be used on store, office and factory interiors.

Covering capacity: 480 sq. ft. per gal., single coat.
300 sq. ft. per gal., double coat.

Shipping weight: 17 lbs. per gallon.

TRUSCON MASTER PAINTERS' FLAT—

A perfectly formulated flat for use as the undercoat for Truscon Master Painters' White Enamel. The very best results on the finished work will be obtained through its use.

Covering capacity: 240 sq. ft. per gal., single coat.
180 sq. ft. per gal., double coat.

Shipping weight: 19 lbs. per gallon.

TRUSCON HOSPITAL ENAMEL—A most

attractive, sanitary enamel finish for interiors of hospitals, sanitariums, and similar institutions where a perfectly washable, durable, aseptic coating is highly essential. Resists regular washings with antiseptic and disinfecting solutions, together with frequent washings with soap and water.

Covering capacity: 480 sq. ft. per gal., single coat.
360 sq. ft. per gal., double coat.

Shipping weight: 14 lbs. per gallon.

TRUSCON DAIRY ENAMEL—Especially

formulated to meet the requirements of dairymen for finishing the interiors of their dairy buildings, to provide the most attractive sanitary enamel finish. Will retain its whiteness and lustre under continual washing.

Covering capacity: 420 sq. ft. per gal., single coat.
300 sq. ft. per gal., double coat.

Shipping weight: 17 lbs. per gallon.

TRUSCON PACKING HOUSE ENAMEL—

A high grade enamel especially prepared to give the most durable service when subjected to the conditions characteristic in packing houses and similar plants. Can be continually washed and kept perfectly sanitary.

Covering capacity: 420 sq. ft. per gal., single coat.
300 sq. ft. per gal., double coat.

Shipping weight: 17 lbs. per gallon.

BAR-OX INHIBITIVE COATING—An inhibitive coating of the very highest quality for structural steel, bridges and general iron and steel surfaces exposed to natural elementary conditions. Perfectly insulates the iron or steel surface over which it is applied from contact with moisture.

BAR-OX BRINE COATING—For coils, condensers and all iron work in connection with brewing, ice-making and general refrigerating plants.

BAR-OX STACK COATING—For steel surfaces subject to comparatively high degrees of heat.

BAR-OX EMBEDDED COATING—Used as final coat on all structural steel encased in concrete to protect the steel from the alkali in the concrete.

BAR-OX ACID AND ALKALI COATING.

BAR-OX CONDUIT COATING.

BAR-OX GAS HOLDER COATING.

TRUSCON FLOOR HARDENER—A finely ground compound possessing the properties of hardening and increasing the density of cement floors, providing greater resistance to wear.

Catalogues and Color Cards sent on request.

INDEX

	Page		Page
Adjustable Inserts	53	Inserts, Slotted	52
Agatex	77	Inserts, Socket	53
Angles, Tongue	38	Installing Devices	48
Bars, Curb	50	Lath, Diamond Mesh....	41
Bars, Rib	8	Lorib	40
Bars, Trussed	4-15	Mesh, Road	46
Beams, Safe Load....	9-15	Metal Lath	33-40-41
Bending Hyrib	34	Metal Sash Putty.....	62
Building Essentials	3	Paints, Technical	76-80
Chairs, Flat Slab.....	23	Partitions, Hyrib...31-32-35	
Chairs, Spacer	17	Plate Clips, Hyrib....	37
Casements	64-72	Plates, Road	
Ceilings, Hyrib ..30-32-35		Expansion	47-49
Chemical Products ..76-80		Pressed Steel Inserts..	52
Clips, Hyrib, Rib.....	38	Protectors, Edge	51
Clips, Hyrib, Plate....	37	Punch for Hyrib.....	38
Collapsible Column		Putty	62
Hooping	24	Rib Bars	8
Column Hooping	24	Rib Clips, Hyrib.....	38
Columns, Loads on...25-26		Rib Metal	42-45
Corner Beads	23	Road Expansion	
Curb Bars	50	Plates	47-49
Curved Hyrib	34	Road Mesh	46
Cutter for Hyrib	38	Roofs, Hyrib30-31-36	
Dampproofings	76-80	Safe Loads on—	
Diamond Mesh Lath....	41	Columns	25-26
Edge Protectors	51	Concrete Beams ...9-15	
Elastic Filler	51	Floretyle	
End Caps	17	Construction16-20	
Essentials of		Footings	27-29
Building	3	Hollow Tile Slabs.21-22	
Expansion Plates,		Hyrib Slabs	35-36
Road	47-49	Rib Metal Slabs.....	44
Factory Sash	54-63	Sash, Casement	64-72
Filler, Elastic	51	Sash, Factory	55-63
Flat Slab Chairs.....	23	Sash Putty	62
Floor Enamel	77	Shearing of Bars.....	6
Floor Spot Grounds...39		Side Walls, Hyrib....	35
Floors, Hyrib ...30-31-36		Sidings, Hyrib ...31-35-35	
Floretyles	16-20	Slotted Inserts	52
Footing Tables	27-29	Spacer Chairs	17
Furring	31	Spot Grounds	39
Spot Grounds	39	Steel Casements ...64-72	
Hooping, Column	24	Steel Sash	54-63
Hyrib	30-38	Steel Sash Putty.....	62
Hyrib, Bent	34	Socket Inserts	53
Hyrib Cutter	38	Stonetex	76
Hyrib Plate Clips....	37	Technical Paints ...76-80	
Hyrib Punch	38	Trussed Bars	4-15
Hyrib Rib Clips.....	38	Walls, Hyrib	31-35
Inserts, Adjustable....	53	Wall Spot Grounds....	39
		Waterproofings	76-80
		Waterproofing Paste...76	
		Windows, Steel54-72	

Build *Better* With

Truscon

**BUILDING
PRODUCTS**